

產品目錄 / PRODUCT CATALOG

壓敏電阻器系列

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COMPANY PROFILE

公司簡介

智旭電子源自臺灣，1988創立於臺灣台中市，1998年在大陸設廠，致力於安規元器件專項研發、生產和銷售，擁有多項全新自動化製造設備、實驗設備，以及全自動檢測測試設備。

目前智旭電子主要生產銷售全系列低、中高壓陶瓷電容器、抑制電源電磁干擾電容器(Y1、Y2、X2型)、金屬膜電容器(CL11、CL23、CL23B、CL21X、CL21、CBB81、CBB21、CBB13型)、壓敏電阻(突波吸收器)等，X電容與Y電容年生產能力30億隻以上，在行業排名前十名。

公司已經通過ISO 9001品質管制體系認證，ISO14001環境體系認證，X2電容、Y1和Y2電容及壓敏電阻已通過中國CQC，德國VDE，美國/加拿大CUL，韓國KC，歐盟ENEC，國際電工委員會CB等產品安全認證，薄膜電容器均符合國際歐盟環保ROHS指令及REACH法規。

智旭電子本著“品質第一，客戶至上，永續經營”之經營理念。在“全員參與，追求零缺點，確保產品無害”之品質政策下。全體同仁不斷提升技術、產品與服務，專業提供電源類、家電類、安防類、通信、電機、變頻器、汽車電子等電子整機領域的應用，提供陶瓷電容器，薄膜電容器，壓敏電阻器等電子元器件”一站式“解決方案服務，追求與客戶最完美之配合。

1988
創立年份

ISO9001
質量管理體系認證

ISO14001
環境體系認證



Originated in 1988 in Taichung City, Taiwan, JYH HSU(JEC)ELECTRONICS LTD (also Dongguan Zhixu Electronic Co., Ltd. (short for JEC) has been dedicating itself to the research and development, production and marketing of electronic components for over 30 years. Our mainland China factories were set up in 1998. Currently, we not only possess quite a few automated production machines and automated testing machines but also have our own laboratory to test the performance and reliability of our products.

At present, JEC produces a wide range of passive components including common and high voltage ceramic capacitors, EMI suppression capacitors (X2, Y1, Y2), film capacitors (CBB series, CL series, etc), varistors (surge absorber) and thermistors. Our yearly production of X and Y capacitors is over 3 billion, making us one of the top 10 manufacturers of safety capacitors in the Chinese industry.

JEC factories are ISO-9000 and ISO-14000 certified. Our X2, Y1, Y2 capacitors and varistors are CQC (China), VDE (Germany), CUL(America/Canada), KC (South Korea), ENEC (EU) and CB (International Electrotechnical Commission) certified. All of our capacitors are in line with the EU ROHS directives and REACH regulations.

JEC adheres to the management philosophy of "Quality First, Superior Customer Service, Sustainable Business Practices". All of our employees keeps improving our production technology, product quality and customer services under the guidance of the "full participation, pursuit of zero defects, ensuring product safety" policy. We focus on complete mechanical applications in the field of power supplies, home appliances, defense, communications, motor, frequency converter and vehicle electronics, endeavoring to pursue perfect cooperation with our customers by providing "one-stop service" of ceramic capacitors, film capacitors, and varistors.

QUALIFICATION CERTIFICATION

資質認證



COOPERATION PARTNERS

合作客戶

感謝眾多客戶一直以來對智旭的支持和信賴！
We would like to thank our clients for the continued support and trust!

排名不分先后 This list is in no particular order.



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VARISTOR

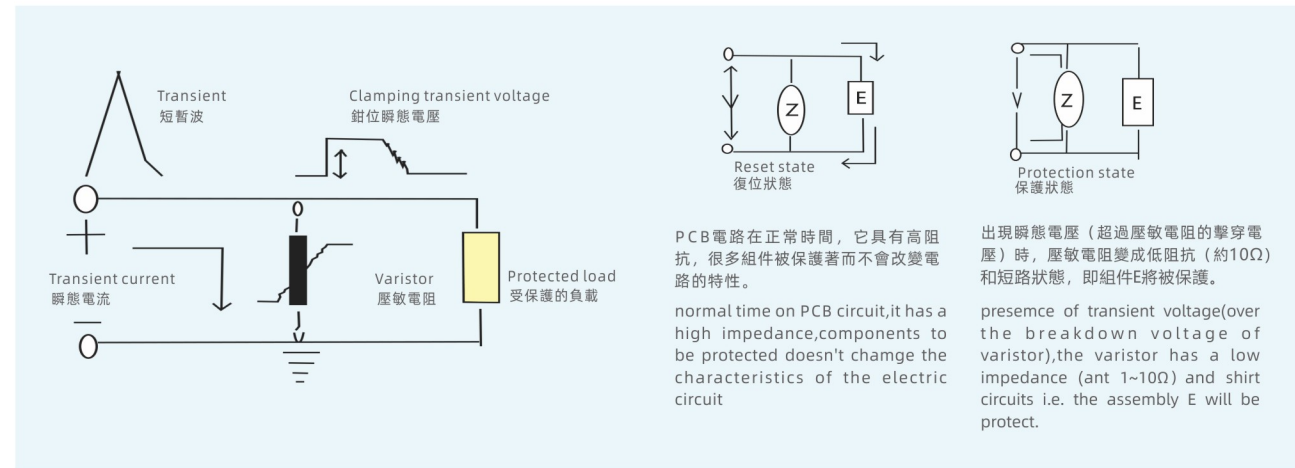
壓敏電阻內容介紹

壓敏電阻Varistor功能原理 [Varistor function and principle]

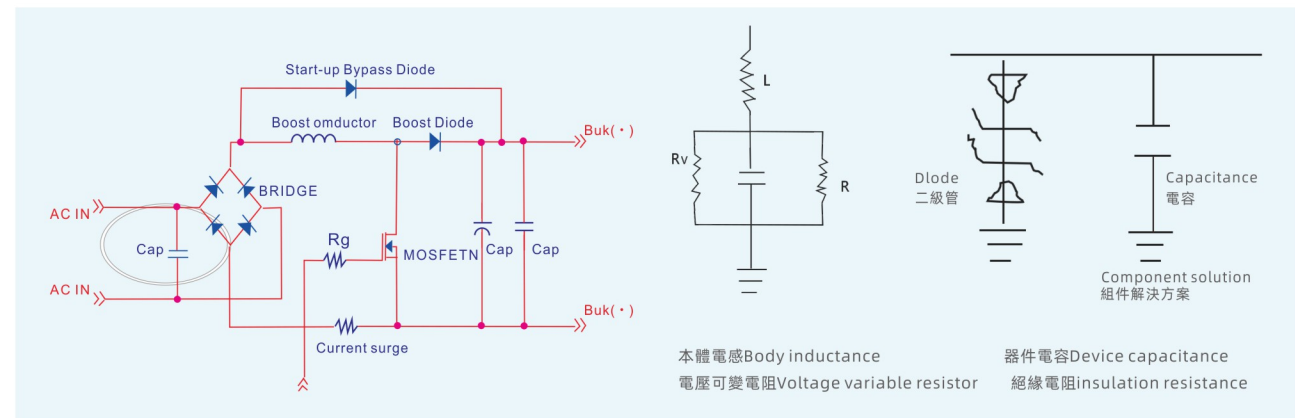
- 防止雷擊造成的大突波電壓，隨著cable進到產品裏，而導致產品損毀。
- 防止電源端不穩定的電壓，跟著開關進入產品，使其功能破壞後FAIL。
- 防止靜電放電進入產品，使產品功能破壞後失效。
- 壓敏電阻通常設計在最靠近板邊處的端，尤其會是在主要的電源匯入處或傳輸端，重點就是一開始讓能量進入時就能穩壓。
- To prevent lightning caused by a large surge voltage, with the cable into the product, which led to product damage.)
- To prevent the main supply side of the unstable voltage, by on / off switch into the product, so that function FAIL after the destruction.)
- To prevent electrostatic discharge into the product, so that product be FAIL after destructed.)
- Varistor is usually designed at the end closest to the edge of the PCB, especially at the main supply input or transmission side, the important is the beginning of the energy to enter and it can stabilize the voltage.)

壓敏電阻工作原理 Varistor operation principle

佈局上，會放置於外露的介面端或靠近重要IC旁，將超過工作電壓之外的突波能量，導引到地。
When layout, it will be placed in the exposed interface or near the important IC, it will put the over than working voltage surge lead to the ground.



壓敏電阻於布局端說明 Varistor in layout



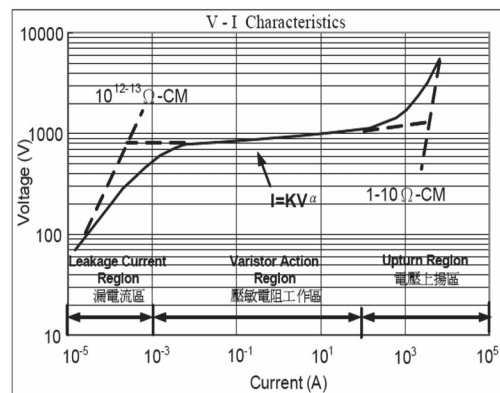
突波電壓S之來源 The source of the surge voltage S

- 直接雷擊所產生的突波
- 接地不良所產生的突波
- 各種磁性所誘發的突波
- 靜電特性所誘發的突波
- Direct lightning generated by the sudden wave
- Poor ground caused by the sudden wave
- Various magnetic induced waves
- Induced by electrostatic caused the surge waves

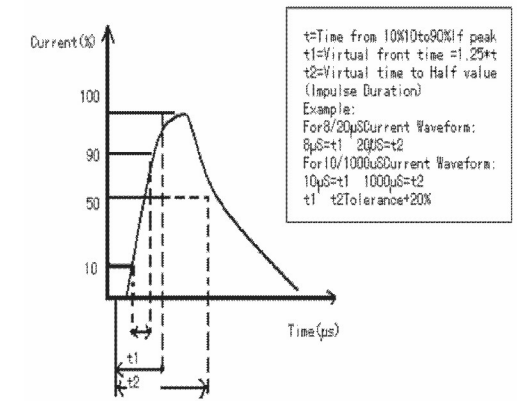
突波電壓S之來源 The source of the surge voltage S

- ESD是代表英文Electro Static Discharge即“靜電放電”簡單的說就是兩物質經由接觸摩擦而失去電子或得到電子,使帶(不流動)的電荷稱之靜電。因開關電或雷擊間接誘發的突波源所產生的突波。
- 相對溫度也是影響摩擦生電的電量大小的因素，在低於45°C以下時，會產生比處於55°C以上的溫度時更大的電壓，破壞性也相對較大。
- ESD is the abbreviation of Electro Static Discharge, simply say that the two substances through the contact friction and loss of electrons or get electrons, so that there is (not flow) of the charge called static electricity, due to switching power or lightning induced by the sudden emergence of the sudden wave.
- The relative temperature is also a factor that affects the amount of electricity produced by the frictional charge, which, when below 45 °C, produces a larger voltage than the temperature at 55 °C or more, and is also relatively

压敏电阻的電壓/電流特性 Varistor v-I characteristics



8/20μS脈衝波型 8/20 μS Pulse Wave



VARISTOR

壓敏電阻內容介紹

如何選用壓敏電阻 How to choose varistor

- 確認最大容許電壓: (產品工作電壓或電源電壓)? 電源供應系統: 交流或直流?
- 注意供電電壓的穩定性: ±10%, ±20% or ±30%?
- 最大抑制電壓(設備可接受的瞬時突波電壓)
- 焦耳值(Joule) $Energy = K * V_{clamp}(V) * I_{peak}(A) * Time(s)$
一般 $I_{mA} = 1.5 V_p = 2.2 VAC$ 式中, V_p 為電路額定電壓的峰值, VAC 為額定交流電壓的有效值, 壓敏電阻的電壓值選擇是至關重要的, 它關係到保護效果與使用壽命。
- Confirm Maximum allowable voltage : (Work voltage or main supply voltage)?
- Power supply System: AC or DC ?
- Pay attention to the stability of supply voltage: ±10%, ±20% or ±30%?
- Maximum suppression voltage (instantaneous surge voltage acceptable to the device)
In general, $V_{1mA} = 1.5 V_p = 2.2 VAC$, in this formula, V_p for circuit rated Voltage Peak, Valid value of VAC for rated AC voltage, VDR Varistor's voltage value. Choice is crucial, it relates to the protection effect and the service life.

如一台電器的額定電源電壓為220V, 則壓敏電阻電壓值為
(For example, the rated power supply voltage of an electrical appliance is 220V, then the varistor voltage value is:)

- $V_{1mA} = 1.5 V_p = 1.5 * 1.414 * 220V = 2.2 VAC = 2.2(2.3) * 220V = 484(506)$, 因此壓敏電阻可選在511K或561K. (Therefore the voltage choice is 511K or 561K)

通用工作電壓 客戶設計選用壓敏電阻簡易表 General operating voltage, customer design selection of varistor simple table

選型參考 Selection reference	線--線之間的保護 line to line protection	線--地線之間的保護 line to earth protection
工作電壓 Working voltage	壓敏電阻器型號 Model No. of Varistor	壓敏電阻器型號 Model No. of Varistor
AC100V	JEC-□□D271K	JEC-□□D681K
AC110V	JEC-□□D301K	
AC120V	JEC-□□D331K	
AC220V	JEC-□□D471K	JEC-□□D821K
	JEC-□□D511K	
	JEC-□□D561K	
	JEC-□□D681K	
AC380V	JEC-□□D821K	JEC-□□D182K
	JEC-□□D911K	
	JEC-□□D102K	

保險絲的選擇 Selection of fuses

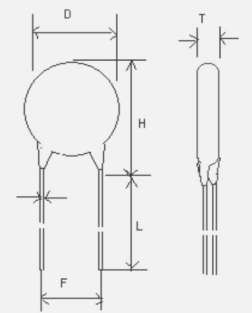
壓敏電阻系列 Varistor series	05D	07D	10D	14D	20D	25D
推薦保險絲規格 Recommended FUSE specifications	1-2A	2-4A	3-5A	4-8A	6-10A	10A以上

壓敏電阻產品命名規則 Product naming rules for Varistor

JEC-□□	□□□	K	□□□	
↓	↓	↓	↓	
芯片直徑 Chip diameter	壓敏電壓 Voltage	公差值 Tolerance	產品參數 Product participation	
05=φ 5mm	220=22V	K=±10%	*=6KV/3KVA產品	S=直腳straight
07=φ 7mm	221=220V	L=±15%	H=高能品	o=外彎Outer Bend
10=φ 10mm	102=1000V	M=±20%		I=內彎Inner Bend
14=φ 14mm				T=編帶盒裝Taping, boxed
20=φ 20mm				
*剪腳公差尺寸最大±1.0 mm lead wire cutted max tolerance±1.0 mm		*產品外觀尺寸及產品上標示, 詳見本司產品規格書 Product appearance, dimention and markings,details as specification.		

產品外型尺寸 The Shape and Dimensions

規格	電壓範圍 Range of voltage(V)	尺寸Dimensions (mm)					
		D max	T max	F±0.8	d±0.05	H max	L min
05D	18-68V	7.0	2.5~4.8	5	0.6	9.5	25
	82-750V	7.0	3.0~6.5	5	0.6		
07D	18-68V	9.0	2.5~4.8	5	0.6	11.5	25
	82-820V	9.0	3.0-6.5	5	0.6		
10D	18-68V	12.5	2.5~4.8	7.5	0.8	14.5	25
	82-1100V	12.5	4.0-9.5	7.5	0.8		
14D	18-68V	17.0	2.5~4.8	7.5	0.8	18.5	25
	82-1800V	17.0	5.0-15.0	7.5	0.8		
20D	18-68V	23.0	2.5~4.8	10	1	24.5	25
	82-1800V	23.0	5.0-15.0	10	1		
25D	18-68V	28.0	3.0-6.0	10	1	32	25
	82-1800V	28.0	6.0-15	10	1		



VARISTOR

壓敏電阻內容介紹

技術資料 Technical Information

- 下列的各參數表中, 除非有特別要求, 否則所有電參數都是按照GB/T10194~GB/T10193-1997 (等同IEC1051-2:IEC61051-1) 規定的測試方法和條件進行試驗。
- 室溫測試條件規定為: 溫度: 25±10°C; 相對濕度45~75%RH; 在大氣壓力: 86~106 kpa。
- (The following in the parameters table, unless specifically requested, otherwise, all parameters are set according to GB/T10194~GB/T10193-1997 (idt. IEC1051-2:IEC61051-1) under test conditions and test methods.)
- (Testing at room temperature condition is : Temperature 25±10°C; Relative humidity 45~75RH : Atmospheric pressure : 86~106 kpa)

參數 Parameters	試驗方法 Test Methods	判定依據 Criterion
壓敏電壓 Varistor Voltage	通過規定電流時, 壓敏電阻器兩端的電壓用V來表示, 05D系列規定通過的電流為 0.1mA, 07D,10D,14D,20D系列規定通過的電流為1mA Through the rated current, varistor voltage at both ends with a V letter, 05D series, through current is 0.1mA, and 07D,10D,14D,20D series, through current are 1mA.	達到規格表中數值 Meet the value in specification table
最大連續工作電流 Maximum continuous operating current	在規定的溫度範圍內可以連續施加在壓敏電阻器兩端的最大交流 (有效值) 或者直流電壓 Within specified temperature range, can impose on both ends of the varistor maximum continuous AC (RMS), or dc voltage.	達到規格表中數值 Meet the value in specification table
限制電壓 Clamping Voltage	對壓敏電阻器施加規定的標準波型(8/20 μs)和規定電流時, 壓敏電阻器兩端的最大電壓 To force by standard wave (8/20 μs) and the specified current on the varistor, the maximum voltage on both ends of varistor.	達到規格表中數值 Meet the value in specification table
額定功率 Rated Power	在規定的環境溫度下所能消耗的最大功率 The maximum consumed power under specified ambient temperature.	
能耐能量 Maximum Energy	一次單脈沖電流沖擊的最大能量, 以10/1000 s和2 ms方波, 其電流, 電壓與時間的積(J=k.Vp.Ip.T, k為系數)即為能量耐量. 且壓敏電壓的變化率仍在±10%內 A maximum energy of one pulse impulse, duration 10 μs to 1000 μs of 2ms square waveform, the product of current, voltage and time plot (J=K.VP. IP. T, K coefficient) is the maximum energy. And the change rate of varistor voltage is still within 10 %.	達到規格表中數值 Meet the value in specification table
最大峰值電流 Maximum peak current	1次:以8/20 μs標準波形電流作一次沖擊的最大電流值, 壓敏電壓的變化率仍在±10%以內 1 time: The maximum current of one standard pulse impulse that duration 8 μs to 20 μs, and the change rate of varistor voltage is still within 10 %. 2次:以8/20 μs標準波形電流作二次沖擊的最大電流值, 兩次沖擊之間間隔5分鐘,此時壓敏電壓的變化率仍在±10%以內 2 time: The maximum current of two standard pulses impulse, that duration 8 μs to 20 μs, two times between pulses shock 5 minutes, and the change rate of varistor voltage is still within 10 %.	達到規格表中數值 Meet the value in specification table

參數 Parameters	試驗方法 Test Methods		判定依據 Criterion
壓敏電壓溫度系數 Temperature coefficient of voltage	$\frac{V1mA \text{ at } 85^{\circ}\text{C} - V1mA \text{ at } 25^{\circ}\text{C}}{V1mA \text{ at } 25^{\circ}\text{C}} \times \frac{1}{6} \times 100 (\% / ^{\circ}\text{C})$		0~-0.05%/°C
固有電容 Inherent capacitance	測試條件: 1 kHz±10%, 1Vrms (小于100 PF时测试频率为1MHz±10%) Test conditions : 1KHz ±10%, 1Vrms (When capacitance less than 100PF then test frequency with 1MHz ±10%)		達到規格表中數值 誤差範圍±30% (僅供參考) Meet the value in specification table within ±30% range (Reference only)
絕緣強度 Insulation strength	將樣品的兩端連在一起為一電極, 用金屬球包圍樣品的環氧包封體為另一電極, 施加規定的電壓1分鐘(見下表) The two ends of the specimen are connected together as an electrode, and the epoxy coated body of specimen surround with metal balls is another electrode, and exert specified voltage duration 1 minute (see below table)		無擊穿 No breakdown
	壓敏電壓 Varistor Voltage	試驗電壓 Testing Voltage(AC/1mA)	
	Vc ≤ 330V	1000 Vrms	
	Vc > 330V	2000 Vrms	
脈沖壽命 Impulse endurance	按沖擊次數選擇相應曲線, 沖擊次數為10~1000次時, 沖擊間隔為2分鐘, 沖擊次數≥10次時, 沖擊間隔10秒鐘。 Select the corresponding curve according to the impact number time, when is 10 to 1000 number times, the impact interval is 2 minutes. If impact number times ≥10, then the impact interval is 10 minutes		▲VcVc≤±10%
引線拉力強度 Tensile strength of lead wire	逐漸增加壓敏電阻器兩條引線端點的負荷直如下表的重量, 然後保持10秒, 目視檢查有無損傷。 Gradually increase loading to the two lead wire of the Varistor, until the weight of the following table, and then maintain 10 seconds, visual inspection has no damage.		無明顯機械損傷 No obvious mechanical damage
	引線直徑 lead wire diameter	拉力 pull strength	
	φ 0.6 mm, φ 0.8 mm	10 N	
	φ 1.0 mm	20 N	

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壓敏電阻內容介紹

參數 Parameters	試驗方法 Test Methods	判定依據 Criterion	
引線彎折強度 Flexural Strength of Lead wire	將樣品固定,使引線垂直向上,然後以軸向施加力如下表,引線被逐漸向一個方向彎折90度,然後再朝原方向彎折90度,目視檢查有無損傷 The specimen is fixed so that the lead is vertically upward, and then the axial force is applied to the following table, the lead is gradually bent to a direction of 90 degrees, and then bend to the original direction 90 degrees, visual inspection has no damage.	無明顯機械損傷 No obvious mechanical damage	
	引線直徑 lead wire diameter		拉力 pull strength.
	φ 0.6mm, φ 0.8mm		5 N
	φ 1.0mm		10 N
振動 Vibration	對樣品施加簡諧振動(振幅0.75mm),頻率10-55Hz,每1分鐘為1個頻率變化周期(10Hz-55Hz-10Hz),三個軸向分別施加2小時,然後目視檢查有無損傷 To exert a harmonic vibration (amplitude 0.75mm) on the specimen for frequency range 10-55Hz, 1 frequency cycle (10-55-10 Hz) per 1 minute, and three axes are applied for 2 hours respectively. And then the visual inspection has no damage.	無明顯機械損傷 No obvious mechanical damage	
可焊性 Solderability	將引線浸入錫槽距產品包封層2mm處,錫槽溫度260±5°C,浸焊時間2±0.5秒,目視檢查有無損傷 The lead wire is immersed in the tin pot, 2mm from the product seal layer, the tin pot temperature 260±5°C, and the soldering time 2.5 s, the visual examination has no damage.	約95%的引線表面被焊錫覆蓋 About 95% of the lead wire surface is covered by solder.	
耐焊接熱 Resistance to soldering heat	將引線浸入錫槽距產品包封層2-2.5mm處,錫槽溫度260±5°C,浸焊時間10±1秒(05D系列5±1秒),然後在室內放置1-2小時,再測壓敏電阻變化率和目視檢查有無損傷 The lead wire is immersed in the tin pot, 2-2.5mm from the product seal layer, the tin pot temperature 260±5°C, and the immersion time 10±1 s (05D series 5±1 s), then place it indoor for 1-2 hours, and check the change rate of VDR voltage, and visual inspection.	▲VcVc≤±5% 無明顯機械損傷 No obvious mechanical damage	
高溫存放試驗 High Temperature Storage test	樣品在130±2°C的烘箱中無負荷存放1000小時,然後取出在室內放置1-2小時,再測壓敏電阻變化率 To put the specimen in the 130±2°C oven without load for 1000 hours, and then remove and place it in the room for 1-2 hours, then measure the voltage change rate.	▲VcVc≤±5%	
濕熱試驗 Damp heat test	樣品在40±2°C,相對濕度90-95%的環境中,無負荷放置1000小時,然後取出在室內放置1-2小時,再測壓敏電阻變化率 To put the specimen in the 40±2°C, relative humidity 90-98% environment without load for 1000 hours, and then remove and place it in the room for 1-2 hours, then measure the voltage change rate.	▲VcVc≤±5%	

濕度循環 試驗 Humidity Cycling Test	每一次濕度循環的步驟如下表,重復五次,然後取出在室內放置1-2小時,再測壓敏電阻變化率,產品目視檢查無損傷 Every a times the steps of the humidity cycle are as follows, repeat five times, then remove it and place in the room for 1-2 hours, then measure the voltage change rate, and visual inspection without damage.						▲VcVc≤±5%
	步驟 Steps	溫度(°C) Temperature	時間(分) Time (min.)	步驟 Steps	溫度(°C) Temperature	時間(分) Time (min.)	▲VcVc≤±10% 無明顯機械損傷 No obvious mechanical damage
	1	-40±3	30±3	3	130±2	30±3	▲VcVc≤±10%
	2	室溫 room temp.	15±3	4	室溫 room temp.	15±3	▲VcVc≤±10%
高溫負荷試驗 High Temperature Loading test	樣品在130±5°C環境下施加最大連續工作電壓1000小時,然後取出在室溫下放置1-2小時,再測度壓敏電阻變化率 To put the specimen in the 130±5°C environment and exert maximum working voltage continuous for 1000 hours, and then remove and place it in the room for 1-2 hours, then measure the voltage change rate.						▲VcVc≤±10%
濕熱負荷試驗 Damp heat and loading test	樣品在40±2°C,相對濕度90-95%的環境下施加最大連續工作電壓1000小時,然後取出在室溫下放置1-2小時,再測試壓敏電阻變化率 To put the specimen in the 40±2°C/ relative humidity 90-95% environment and exert maximum working voltage continuous for 1000 hours, and then remove and place it in the room for 1-2 hours, then measure the voltage change rate.						▲VcVc≤±10%
耐寒性試驗 Cold test	樣品在-40±2°C的環境下無負荷放置1000小時,然後取出在室溫下放置1-2小時,再測試壓敏電阻變化率 To put the specimen in the -40±2°C environment continuous for 1000 hours, and then remove and place it in the room for 1-2 hours, then measure the voltage change rate.						▲VcVc≤±5%

- 若有特殊尺寸要求,電參數要求等,可按供需雙方協議定做生產。
- JEC壓敏電阻小常識:
- 金屬氧化物變阻器,一種用來抑制突波電壓變化的零件。
- 壓敏電阻在其內部結構為多晶陶瓷半導體粒子,類似串並取許多的"小型雷擊抑制器"。
- 當電路開通的瞬間,具有很高電阻之壓敏電阻器的電阻值將急速下降至接近於零。
- If special dimensional requirements, or electrical parameters, etc., can be customized according to both agreement to production.
- JEC Varistor common knowledge:
- A metal oxide rheostat, a kind of component used to suppress the surge voltage.
- Varistor in its internal structure as a polycrystalline ceramic semiconductor particles, similar to the string and take a lot of "small lightning suppressor".
- When a circuit is hit by a high pulse, the resistance value of the varistor with very high resistance will rapidly descend to close to 0.

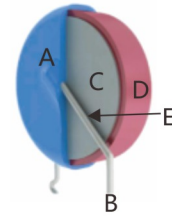
05D-40D SERIES 氧化鋅壓敏電阻器

Zinc Oxide Varistor

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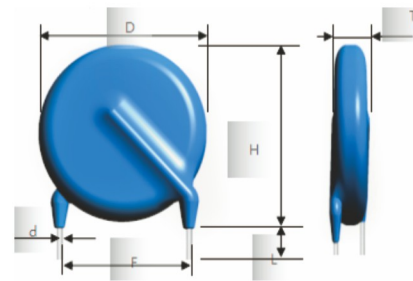


● 結構圖 Construction



- A 絕緣層
Insulation coating
- B 引線
Lead Wire
- C 電極
Electrode
- D 氧化鋅元件
Zinc Oxide
- E 焊料
Solder

● 尺寸代碼 Dimensions Code



▶ 特性 Feature

- 最大通流等級可達40KA
- 最大"能量處理能力"以緊湊尺寸吸收瞬態過電壓
- 壓敏電壓相容範圍廣
- High surge current rating up to 40KA
- Large "Energy Handling Capability" absorbing transient over voltages in compact sizes
- Wide range of varistor voltages

▶ 推薦應用領域 Typical Application

- 用於保護半導體元件 (二極體,三極管,可控矽,IC等)
- 用於保護民用電子設備
- 用於保護通信,計測,控制裝置
- Transistor, diode, IC, thyristor or triac semiconductor protection
- Surge protection in consumer electronic equipment
- Surge protection in communication, measuring or controller electronics

▶ 耐浪湧電流 Withstanding Surge Current

耐浪湧電流 Series	可容許之最大電壓 Maximun Allowable Voltage		壓敏電壓 Varistor Voltage			最大抑制電壓 Maximun Clamping Voltage	
	AC rms(V)	DC(V)	Min.	Vb(Vdc)	Max.	Vc(V)	Ip(A)
05D~25D	11~1100	14~1465	15~1620	18~1800	21~1980	36~2970	1~150
工作/儲存溫度範圍 Operating /Storage Temperature			-40°C ~ +85°C / -40°C ~ +130°C				

▶ 電氣特性 Electrical Characteristics

05D標準系列及高能品系列 Standard series and high joule series

產品型號 Part Number		最大允許 回路電壓 Maximum Allowable Voltage		壓敏電壓 Varistor Voltage	最大 限制電壓 Maximum Clamping Voltage		最大峰值電流 8/20µS Withstanding Surge Current	能量/耐量 Energy 10/1000µS		最大 額定功率 Rated Power	電容量 (參考值) Typical Capacitance (Reference)	
標準系列 Standard	高能品(H) High Surge	AC (V)	DC (V)	V0.1mA (V)	IP (A)	VC (V)	標準系列 I(A) Standard	高能品 I(A) High Surge	標準系列 J) Standard	高能品 (H) High Surge	(W)	1KHz(PF)
JEC-05D180K	JEC-05D180KH	11	14	18(15~21.6)	1	40	100	250	0.4	0.6	0.01	1400
JEC-05D220K	JEC-05D220KH	14	18	22(19.5~26)	1	48			0.5	0.7	0.01	1150
JEC-05D270K	JEC-05D270KH	17	22	27(24~31)	1	60			0.6	0.9	0.01	930
JEC-05D330K	JEC-05D330KH	20	26	33(29.5~36.5)	1	73			0.8	1.1	0.01	760
JEC-05D390K	JEC-05D390KH	25	31	39(35~43)	1	80			0.9	1.2	0.01	640
JEC-05D470K	JEC-05D470KH	30	38	47(42~52)	1	104			1.1	1.5	0.01	530
JEC-05D560K	JEC-05D560KH	35	45	56(50~62)	1	123			1.3	1.8	0.01	450
JEC-05D680K	JEC-05D680KH	40	56	68(61~75)	1	145			1.6	2.2	0.01	370
JEC-05D820K	JEC-05D820KH	50	65	82(74~90)	5	150			2.5	4.0	0.1	300
JEC-05D101K	JEC-05D101KH	60	85	100(90~110)	5	177			3.0	4.1	0.1	250
JEC-05D121K	JEC-05D121KH	75	100	120(108~132)	5	210	4.0	4.9	0.1	210		
JEC-05D151K	JEC-05D151KH	95	125	150(135~165)	5	260	4.1	6.5	0.1	165		
JEC-05D181K	JEC-05D181KH	115	150	180(162~198)	5	320	4.9	7.5	0.1	140		
JEC-05D201K	JEC-05D201KH	130	170	200(185~225)	5	355	6.5	8.5	0.1	125		
JEC-05D221K	JEC-05D221KH	140	180	220(198~242)	5	380	7.5	9.0	0.1	110		
JEC-05D241K	JEC-05D241KH	150	200	240(216~264)	5	415	8.0	10.5	0.1	100		
JEC-05D271K	JEC-05D271KH	175	225	270(243~297)	5	475	8.5	11.0	0.1	95		
JEC-05D301K	JEC-05D301KH	190	250	300(270~330)	5	520	9.0	12.0	0.1	85		
JEC-05D331K	JEC-05D331KH	210	275	330(297~363)	5	570	9.5	13.0	0.1	75		
JEC-05D361K	JEC-05D361KH	230	300	360(324~396)	5	620	10.0	16.0	0.1	70		
JEC-05D391K	JEC-05D391KH	250	320	390(351~429)	5	675	12.0	17.0	0.1	65		
JEC-05D431K	JEC-05D431KH	275	350	430(387~473)	5	745	13.0	20.0	0.1	60		
JEC-05D471K	JEC-05D471KH	300	385	470(423~517)	5	810	15.0	21.0	0.1	55		
JEC-05D511K	JEC-05D511KH	320	415	510(459~561)	5	845	16.0	22.5	0.1	50		
JEC-05D561K	JEC-05D561KH	350	460	560(504~616)	5	920	16.5	24.0	0.1	45		
JEC-05D621K	JEC-05D621KH	385	505	620(558~682)	5	1025	21.0	25.0	0.1	40		
JEC-05D681K	JEC-05D681KH	420	560	680(612~748)	5	1120	22.0	29.0	0.1	38		
JEC-05D751K	JEC-05D751KH	460	615	750(675~825)	5	1240	22.4	32.0	0.1	30		

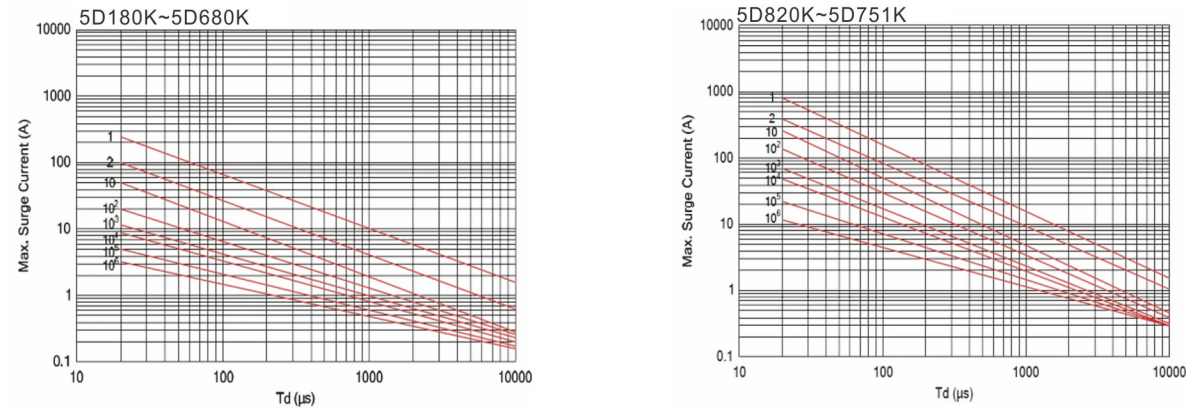
05D SERIES

氧化鋅壓敏電阻器 Zinc Oxide Varistor

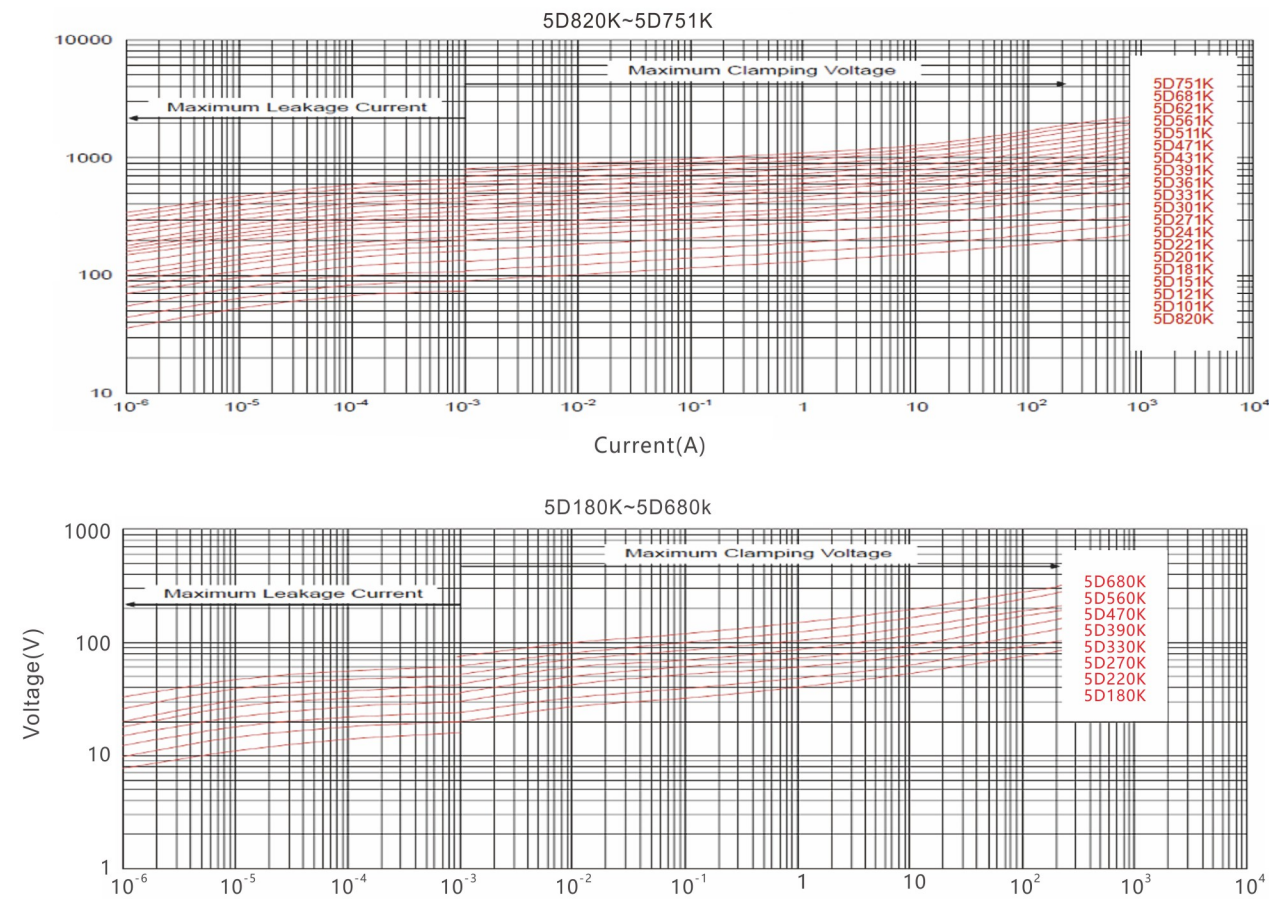
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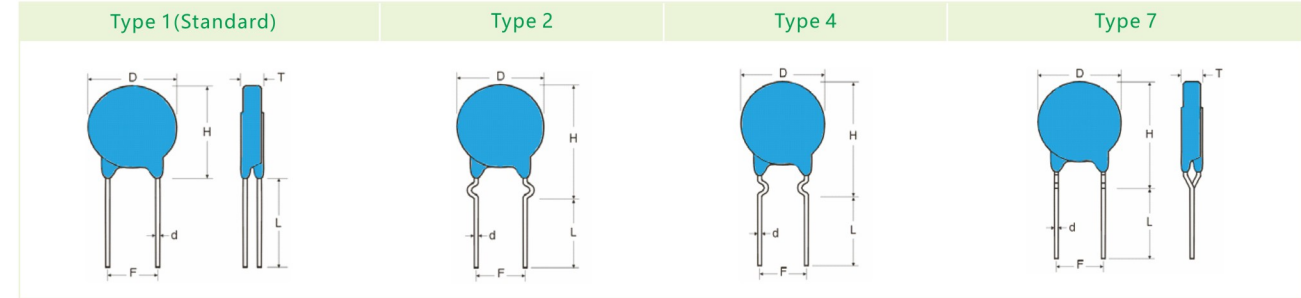
最大沖擊電流減額曲線 Maximum Surge Current Derating Curve



最大漏電流與最大限制電壓曲線 Maximum Leakage Current and Maximum Clamping Voltage Curve



尺寸 Dimensions(mm)



產品型號 Part No.	D Max.	H Max.		L min.	F ±0.8	d ±0.05	T Max.
		Type 1	Type 2 / 4 / 7				
JEC-05D751K	7.0	9.0	12.0	25.0	5.0	0.6	6.5
JEC-05D681K	7.0	9.0	12.0	25.0	5.0	0.6	6.4
JEC-05D621K	7.0	9.0	12.0	25.0	5.0	0.6	6.4
JEC-05D561K	7.0	9.0	12.0	25.0	5.0	0.6	6.2
JEC-05D511K	7.0	9.0	12.0	25.0	5.0	0.6	5.8
JEC-05D471K	7.0	9.0	12.0	25.0	5.0	0.6	5.6
JEC-05D431K	7.0	9.0	12.0	25.0	5.0	0.6	5.3
JEC-05D391K	7.0	9.0	12.0	25.0	5.0	0.6	5.1
JEC-05D361K	7.0	9.0	12.0	25.0	5.0	0.6	5.0
JEC-05D331K	7.0	9.0	12.0	25.0	5.0	0.6	4.8
JEC-05D301K	7.0	9.0	12.0	25.0	5.0	0.6	4.7
JEC-05D271K	7.0	9.0	12.0	25.0	5.0	0.6	4.5
JEC-05D241K	7.0	9.0	12.0	25.0	5.0	0.6	4.3
JEC-05D221K	7.0	9.0	12.0	25.0	5.0	0.6	4.2
JEC-05D201K	7.0	9.0	12.0	25.0	5.0	0.6	4.1
JEC-05D181K	7.0	9.0	12.0	25.0	5.0	0.6	4.1
JEC-05D151K	7.0	9.0	12.0	25.0	5.0	0.6	4.8
JEC-05D121K	7.0	9.0	12.0	25.0	5.0	0.6	4.5
JEC-05D101K	7.0	9.0	12.0	25.0	5.0	0.6	4.3
JEC-05D820K	7.0	9.0	12.0	25.0	5.0	0.6	4.1
JEC-05D680K	7.0	9.0	12.0	25.0	5.0	0.6	4.5
JEC-05D560K	7.0	9.0	12.0	25.0	5.0	0.6	4.5
JEC-05D470K	7.0	9.0	12.0	25.0	5.0	0.6	4.1
JEC-05D390K	7.0	9.0	12.0	25.0	5.0	0.6	4.1
JEC-05D330K	7.0	9.0	12.0	25.0	5.0	0.6	3.9
JEC-05D270K	7.0	9.0	12.0	25.0	5.0	0.6	3.9
JEC-05D220K	7.0	9.0	12.0	25.0	5.0	0.6	3.8
JEC-05D180K	7.0	9.0	12.0	25.0	5.0	0.6	3.8

07D SERIES

氧化鋅壓敏電阻器 Zinc Oxide varistor

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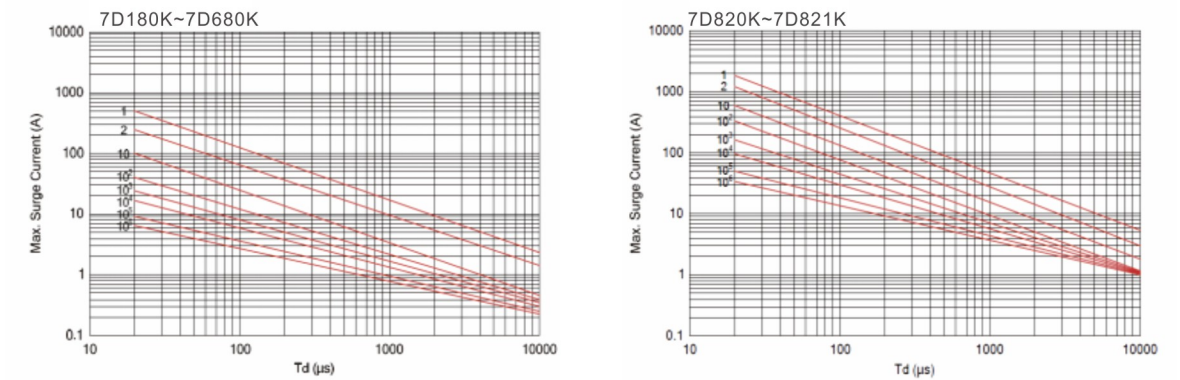


電氣特性 Electrical Characteristics

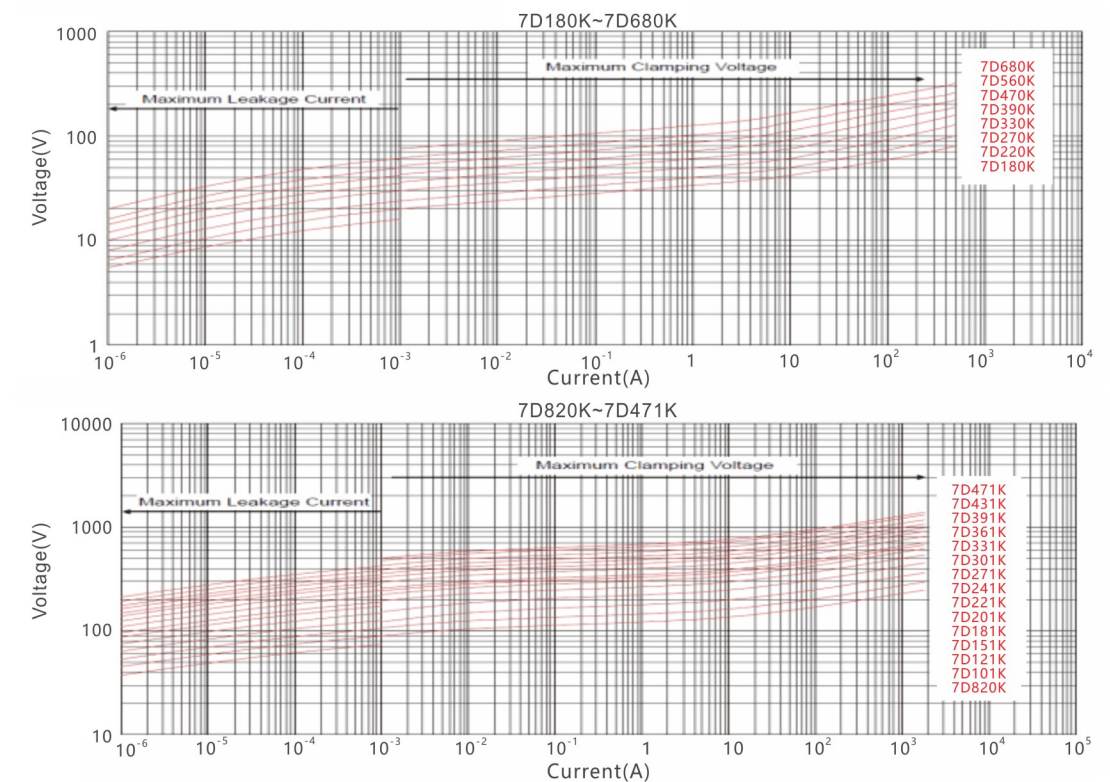
07D標準系列及高能品系列 Standard series and high joule series

產品型號 Part Number		最大允許 回路電壓 Maximum Allowable Voltage		壓敏電壓 Varistor Voltage	最大 限制電壓 Maximum Clamping Voltage		最大峰值電流 8/20 μ S Withstanding Surge Current		能量/耐量 Energy 10/1000 μ S		最大 額定功率 Rated Power	電容量 (參考值) Typical Capacitance (Reference)
標準系列 Standard	高能品(H) High Surge	AC (V)	DC (V)	V1mA (V)	IP (A)	VC (V)	標準系列 I(A) Standard	高能品 I(A) High Surge	標準系列 J Standard	高能品 J High Surge	(W)	1KHz(PF)
JEC-07D180K	JEC-07D180KH	11	14	18(15~21.6)	2.5	36	250	500	0.9	2.0	0.02	2800
JEC-07D220K	JEC-07D220KH	14	18	22(19.5~26)	2.5	43			1.1	2.4	0.02	2300
JEC-07D270K	JEC-07D270KH	17	22	27(24~31)	2.5	53			1.4	3.0	0.02	1800
JEC-07D330K	JEC-07D330KH	20	26	33(29.5~36.5)	2.5	65			1.7	3.5	0.02	1500
JEC-07D390K	JEC-07D390KH	25	31	39(35~43)	2.5	77			2.1	4.0	0.02	1300
JEC-07D470K	JEC-07D470KH	30	38	47(42~52)	2.5	93			2.5	5.0	0.02	1100
JEC-07D560K	JEC-07D560KH	35	45	56(50~62)	2.5	110			3.1	6.0	0.02	890
JEC-07D680K	JEC-07D680KH	40	56	68(61~75)	2.5	135			3.6	7.0	0.02	740
JEC-07D820K	JEC-07D820KH	50	65	82(74~90)	10	135			5.5	10	0.25	600
JEC-07D101K	JEC-07D101KH	60	85	100(90~110)	10	165			6.5	12	0.25	500
JEC-07D121K	JEC-07D121KH	75	100	120(108~132)	10	200			7.8	12	0.25	420
JEC-07D151K	JEC-07D151KH	95	125	150(135~165)	10	250			9.7	13	0.25	330
JEC-07D181K	JEC-07D181KH	115	150	180(162~198)	10	300			11.7	16	0.25	280
JEC-07D201K	JEC-07D201KH	130	170	200(185~225)	10	330			13	17	0.25	250
JEC-07D221K	JEC-07D221KH	140	180	220(198~242)	10	360			14	19	0.25	230
JEC-07D241K	JEC-07D241KH	150	200	240(216~264)	10	395			15	21	0.25	210
JEC-07D271K	JEC-07D271KH	175	225	270(243~297)	10	455			18	24	0.25	185
JEC-07D301K	JEC-07D301KH	190	250	300(270~330)	10	505			20	26	0.25	165
JEC-07D331K	JEC-07D331KH	210	275	330(297~363)	10	550	23	28	0.25	150		
JEC-07D361K	JEC-07D361KH	230	300	360(324~396)	10	595	25	32	0.25	140		
JEC-07D391K	JEC-07D391KH	250	320	390(351~429)	10	650	25	35	0.25	130		
JEC-07D431K	JEC-07D431KH	275	350	430(387~473)	10	710	28	40	0.25	115		
JEC-07D471K	JEC-07D471KH	300	385	470(423~517)	10	775	30	42	0.25	105		
JEC-07D511K	JEC-07D511KH	320	415	510(459~561)	10	845	30	45	0.25	100		
JEC-07D561K	JEC-07D561KH	350	460	560(504~616)	10	920	30	49	0.25	90		
JEC-07D621K	JEC-07D621KH	385	505	620(558~682)	10	1025	33	55	0.25	80		
JEC-07D681K	JEC-07D681KH	420	560	680(612~748)	10	1120	33	60	0.25	75		
JEC-07D751K	JEC-07D751KH	460	615	750(675~825)	10	1240	65	67	0.25	70		
JEC-07D781K	JEC-07D781KH	485	640	780(702~858)	10	1290	65	67	0.25	70		
JEC-07D821K	JEC-07D821KH	510	670	820(738~902)	10	1355	65	70	0.25	60		

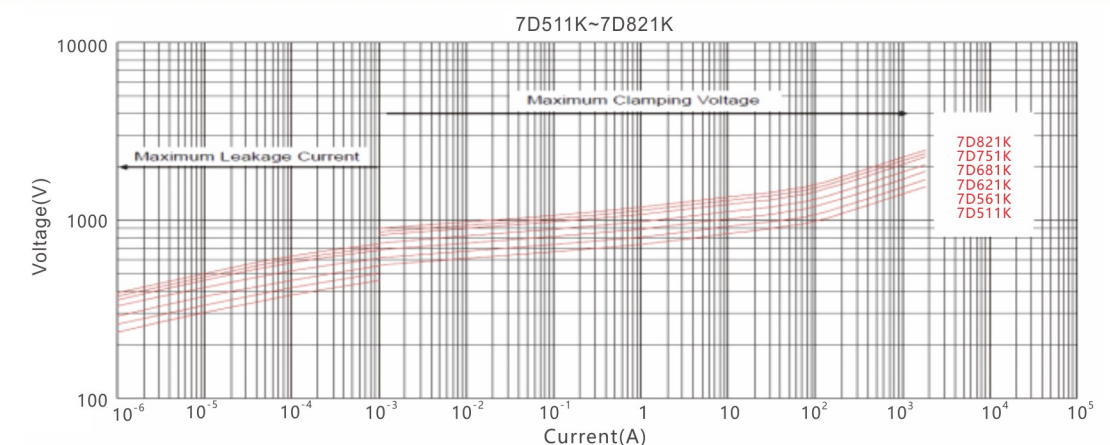
最大沖擊電流減額曲線 Maximum Surge Current Derating Curve



最大漏電流與最大限制電壓曲線 Maximum Leakage Current and Maximum Clamping Voltage Curve



最大漏電流與最大限制電壓曲線 Maximum Leakage Current and Maximum Clamping Voltage Curve

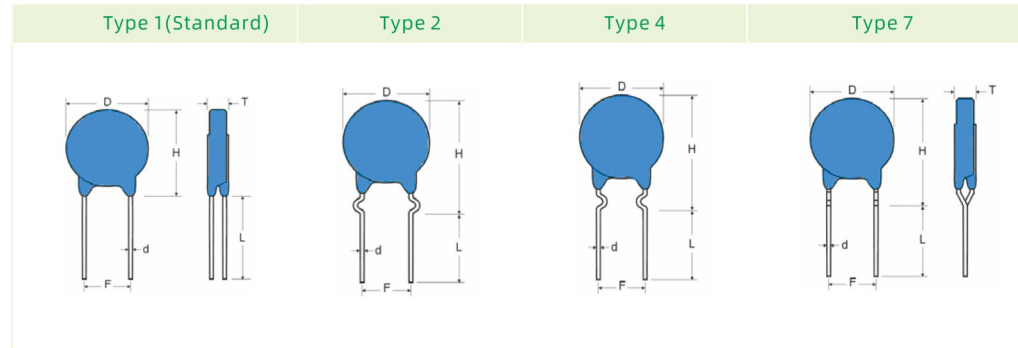


07D SERIES 氧化鋅壓敏電阻器

Zinc Oxide varistor



尺寸 Dimensions(mm)



產品型號 Part No.	D Max.	H Max.		L min.	F ±0.8	d ±0.05	T Max.
		Type 1	Type 2 / 4 / 7				
JEC-07D821K	9.0	11.0	14.0	25.0	5.0	0.6	6.9
JEC-07D781K	9.0	11.0	14.0	25.0	5.0	0.6	6.7
JEC-07D751K	9.0	11.0	14.0	25.0	5.0	0.6	6.5
JEC-07D681K	9.0	11.0	14.0	25.0	5.0	0.6	6.4
JEC-07D621K	9.0	11.0	14.0	25.0	5.0	0.6	6.4
JEC-07D561K	9.0	11.0	14.0	25.0	5.0	0.6	6.2
JEC-07D511K	9.0	11.0	14.0	25.0	5.0	0.6	5.8
JEC-07D471K	9.0	11.0	14.0	25.0	5.0	0.6	5.6
JEC-07D431K	9.0	11.0	14.0	25.0	5.0	0.6	5.3
JEC-07D391K	9.0	11.0	14.0	25.0	5.0	0.6	5.1
JEC-07D361K	9.0	11.0	14.0	25.0	5.0	0.6	5.0
JEC-07D331K	9.0	11.0	14.0	25.0	5.0	0.6	4.8
JEC-07D301K	9.0	11.0	14.0	25.0	5.0	0.6	4.7
JEC-07D271K	9.0	11.0	14.0	25.0	5.0	0.6	4.5
JEC-07D241K	9.0	11.0	14.0	25.0	5.0	0.6	4.3
JEC-07D221K	9.0	11.0	14.0	25.0	5.0	0.6	4.2
JEC-07D201K	9.0	11.0	14.0	25.0	5.0	0.6	4.1
JEC-07D181K	9.0	11.0	14.0	25.0	5.0	0.6	4.1
JEC-07D151K	9.0	11.0	14.0	25.0	5.0	0.6	4.8
JEC-07D121K	9.0	11.0	14.0	25.0	5.0	0.6	4.5
JEC-07D101K	9.0	11.0	14.0	25.0	5.0	0.6	4.3
JEC-07D820K	9.0	11.0	14.0	25.0	5.0	0.6	4.1
JEC-07D680K	9.0	11.0	14.0	25.0	5.0	0.6	4.5
JEC-07D560K	9.0	11.0	14.0	25.0	5.0	0.6	4.5
JEC-07D470K	9.0	11.0	14.0	25.0	5.0	0.6	4.1
JEC-07D390K	9.0	11.0	14.0	25.0	5.0	0.6	4.1
JEC-07D330K	9.0	11.0	14.0	25.0	5.0	0.6	3.9
JEC-07D270K	9.0	11.0	14.0	25.0	5.0	0.6	3.9
JEC-07D220K	9.0	11.0	14.0	25.0	5.0	0.6	3.8
JEC-07D180K	9.0	11.0	14.0	25.0	5.0	0.6	3.8

10D SERIES 氧化鋅壓敏電阻器

Zinc Oxide varistor

電氣特性 Electrical Characteristics

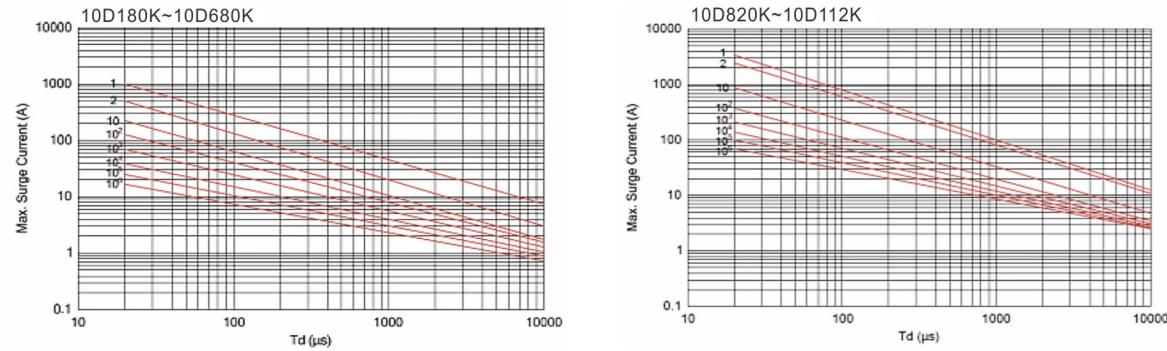
10D標準系列及高能品系列 Standard series and high joule series

產品型號 Part Number		最大允許 回路電壓 Maximum Allowable Voltage		壓敏電壓 Varistor Voltage	最大 限制電壓 Maximum Clamping Voltage		最大峰值電流 8/20µs Withstanding Surge Current		能量/耐量 Energy 10/1000µs		最大 額定功率 Rated Power	電容量 (參考值) Typical Capacitance (Reference)
標準系列 Standard	高能品(H) High Surge	AC (V)	DC (V)	V1mA (V)	IP (A)	VC (V)	標準系列 I(A) Standard	高能品 I(A) High Surge	標準系列 J) Standard	高能品 (H) High Surge	(W)	1KHz(PF)
JEC-10D180K	JEC-10D180KH	11	14	18(15~21.6)	5	36	500	1000	2.1	3	0.05	5600
JEC-10D220K	JEC-10D220KH	14	18	22(19.5~26)	5	43			2.5	5	0.05	4500
JEC-10D270K	JEC-10D270KH	17	22	27(24~31)	5	53			3.0	6	0.05	3700
JEC-10D330K	JEC-10D330KH	20	26	33(29.5~36.5)	5	65			4.0	7	0.05	3000
JEC-10D390K	JEC-10D390KH	25	31	39(35~43)	5	77			4.6	9	0.05	2400
JEC-10D470K	JEC-10D470KH	30	38	47(42~52)	5	93			5.5	11	0.05	2100
JEC-10D560K	JEC-10D560KH	35	45	56(50~62)	5	110			7.0	13	0.05	1800
JEC-10D680K	JEC-10D680KH	40	56	68(61~75)	5	135			8.2	15	0.05	1500
JEC-10D820K	JEC-10D820KH	50	65	82(74~90)	25	135			12	17	0.4	1200
JEC-10D101K	JEC-10D101KH	60	85	100(90~110)	25	165			15	18	0.4	1000
JEC-10D121K	JEC-10D121KH	75	100	120(108~132)	25	200	18	21	0.4	830		
JEC-10D151K	JEC-10D151KH	95	125	150(135~165)	25	250	22	25	0.4	670		
JEC-10D181K	JEC-10D181KH	115	150	180(162~198)	25	300	27	30	0.4	560		
JEC-10D201K	JEC-10D201KH	130	170	200(185~225)	25	330	30	35	0.4	500		
JEC-10D221K	JEC-10D221KH	140	180	220(198~242)	25	360	32	39	0.4	450		
JEC-10D241K	JEC-10D241KH	150	200	240(216~264)	25	395	35	42	0.4	420		
JEC-10D271K	JEC-10D271KH	175	225	270(243~297)	25	455	37	49	0.4	370		
JEC-10D301K	JEC-10D301KH	190	250	300(270~330)	25	505	40	54	0.4	330		
JEC-10D331K	JEC-10D331KH	210	275	330(297~363)	25	550	43	58	0.4	300		
JEC-10D361K	JEC-10D361KH	230	300	360(324~396)	25	595	47	65	0.4	280		
JEC-10D391K	JEC-10D391KH	250	320	390(351~429)	25	650	60	70	0.4	260		
JEC-10D431K	JEC-10D431KH	275	350	430(387~473)	25	710	65	80	0.4	230		
JEC-10D471K	JEC-10D471KH	300	385	470(423~517)	25	775	67	85	0.4	210		
JEC-10D511K	JEC-10D511KH	320	415	510(459~561)	25	845	69	90	0.4	200		
JEC-10D561K	JEC-10D561KH	350	460	560(504~616)	25	920	70	92	0.4	180		
JEC-10D621K	JEC-10D621KH	385	505	620(558~682)	25	1025	72	95	0.4	160		
JEC-10D681K	JEC-10D681KH	420	560	680(612~748)	25	1120	75	98	0.4	150		
JEC-10D751K	JEC-10D751KH	460	615	750(675~825)	25	1240	77	100	0.4	130		
JEC-10D781K	JEC-10D781KH	485	640	780(702~858)	25	1290	80	105	0.4	125		
JEC-10D821K	JEC-10D821KH	510	670	820(738~902)	25	1355	85	110	0.4	120		
JEC-10D911K	JEC-10D911KH	550	745	910(819~1001)	25	1500	93	130	0.4	110		
JEC-10D102K	JEC-10D102KH	625	825	1000(900~1100)	25	1650	102	140	0.4	100		
JEC-10D112K	JEC-10D112KH	680	895	1100(990~1210)	25	1815	115	150	0.4	90		

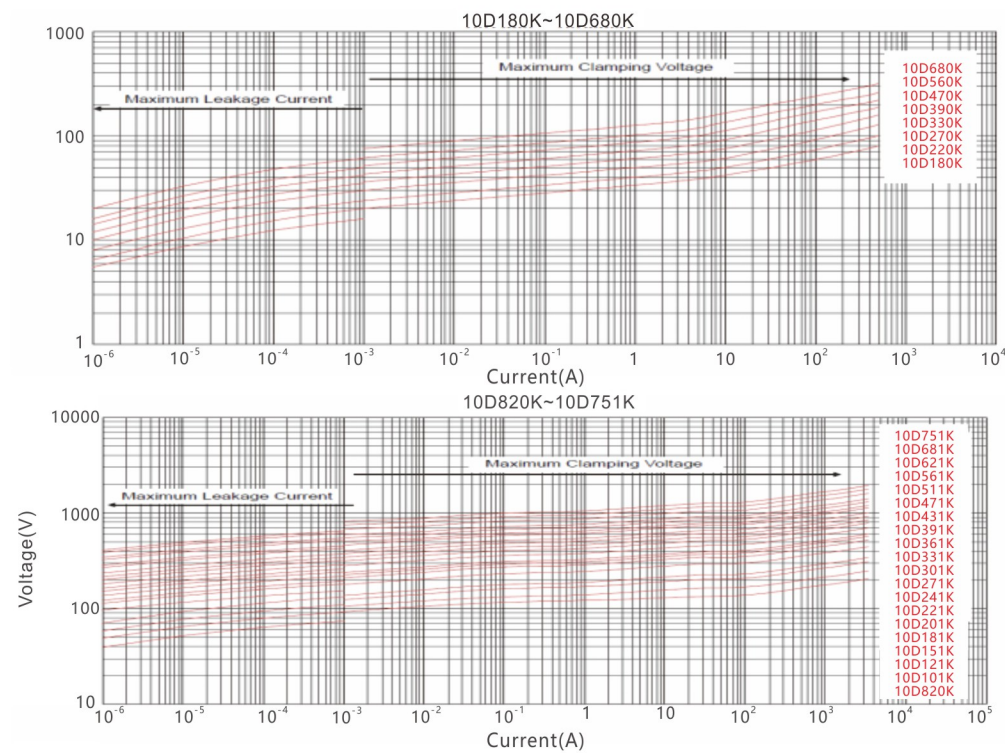
10D SERIES 氧化鋅壓敏電阻器

Zinc Oxide varistor

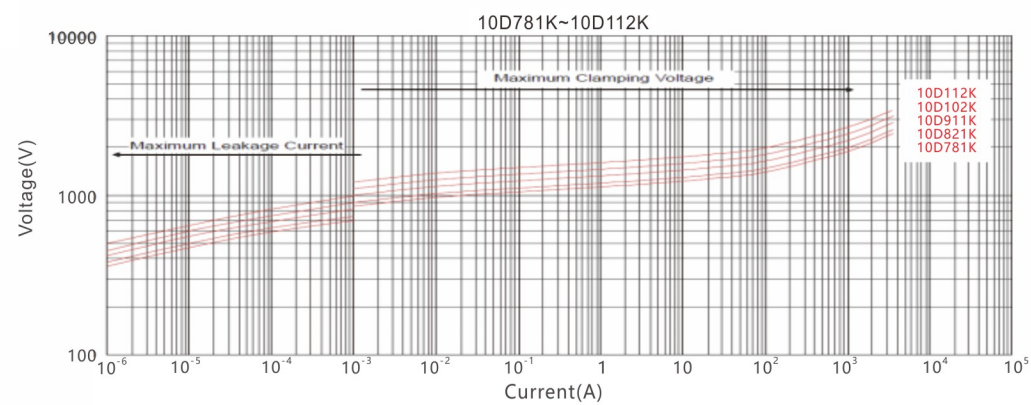
最大沖擊電流減額曲線 Maximum Surge Current Derating Curve



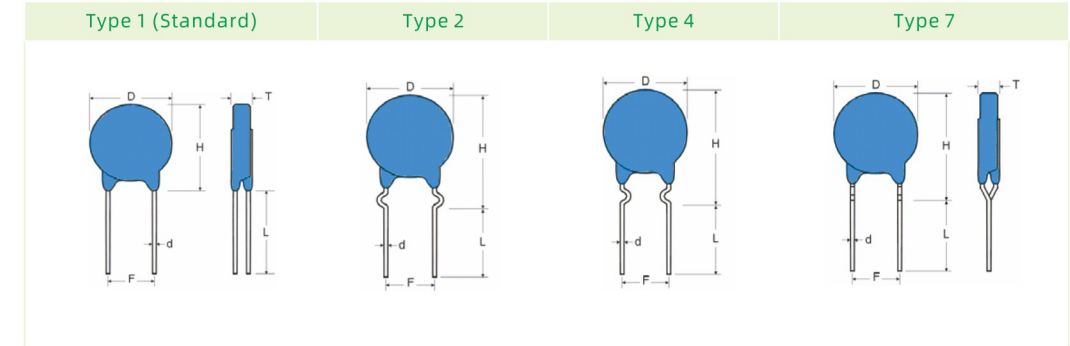
最大漏電流與最大限制電壓曲線 Maximum Leakage Current and Maximum Clamping Voltage Curve



最大漏電流與最大限制電壓曲線 Maximum Leakage Current and Maximum Clamping Voltage Curve



尺寸 Dimensions(mm)



產品型號 Part No.	D Max.	H Max.		L min.	F ±0.8	d ±0.05	T Max.
		Type 1	Type 2 / 4 / 7				
JEC-10D112K	12.5	14.0	17.0	25.0	7.5	0.8	7.8
JEC-10D102K	12.5	14.0	17.0	25.0	7.5	0.8	7.6
JEC-10D911K	12.5	14.0	17.0	25.0	7.5	0.8	7.2
JEC-10D821K	12.5	14.0	17.0	25.0	7.5	0.8	6.8
JEC-10D751K	12.5	14.0	17.0	25.0	7.5	0.8	6.5
JEC-10D681K	12.5	14.0	17.0	25.0	7.5	0.8	6.4
JEC-10D621K	12.5	14.0	17.0	25.0	7.5	0.8	6.4
JEC-10D561K	12.5	14.0	17.0	25.0	7.5	0.8	6.2
JEC-10D511K	12.5	14.0	17.0	25.0	7.5	0.8	5.8
JEC-10D471K	12.5	14.0	17.0	25.0	7.5	0.8	5.6
JEC-10D431K	12.5	14.0	17.0	25.0	7.5	0.8	5.3
JEC-10D391K	12.5	14.0	17.0	25.0	7.5	0.8	5.1
JEC-10D361K	12.5	14.0	17.0	25.0	7.5	0.8	5.0
JEC-10D331K	12.5	14.0	17.0	25.0	7.5	0.8	4.8
JEC-10D301K	12.5	14.0	17.0	25.0	7.5	0.8	4.7
JEC-10D271K	12.5	14.0	17.0	25.0	7.5	0.8	4.5
JEC-10D241K	12.5	14.0	17.0	25.0	7.5	0.8	4.3
JEC-10D221K	12.5	14.0	17.0	25.0	7.5	0.8	4.2
JEC-10D201K	12.5	14.0	17.0	25.0	7.5	0.8	4.1
JEC-10D181K	12.5	14.0	17.0	25.0	7.5	0.8	4.1
JEC-10D151K	12.5	14.0	17.0	25.0	7.5	0.8	4.8
JEC-10D121K	12.5	14.0	17.0	25.0	7.5	0.8	4.5
JEC-10D101K	12.5	14.0	17.0	25.0	7.5	0.8	4.3
JEC-10D820K	12.5	14.0	17.0	25.0	7.5	0.8	4.1
JEC-10D680K	12.5	14.0	17.0	25.0	7.5	0.8	4.5
JEC-10D560K	12.5	14.0	17.0	25.0	7.5	0.8	4.5
JEC-10D470K	12.5	14.0	17.0	25.0	7.5	0.8	4.5
JEC-10D390K	12.5	14.0	17.0	25.0	7.5	0.8	4.5
JEC-10D330K	12.5	14.0	17.0	25.0	7.5	0.8	4.5
JEC-10D270K	12.5	14.0	17.0	25.0	7.5	0.8	4.5
JEC-10D220K	12.5	14.0	17.0	25.0	7.5	0.8	4.5
JEC-10D180K	12.5	14.0	17.0	25.0	7.5	0.8	4.5

14D SERIES 氧化鋅壓敏電阻器

Zinc Oxide varistor

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電氣特性 Electrical Characteristics

14D标准系列及高能品系列 Standard series and high joule series

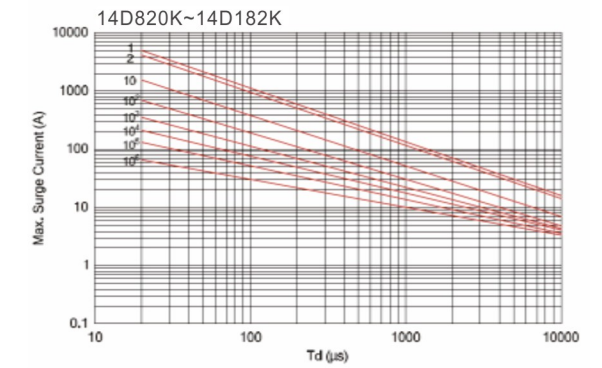
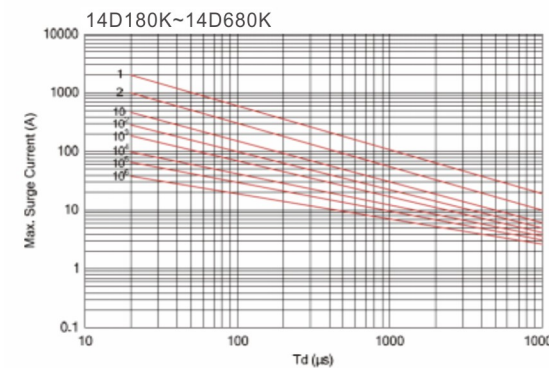
產品型號 Part Number		最大允許 回路電壓 Maximum Allowable Voltage		壓敏電壓 Varistor Voltage	最大 限制電壓 Maximum Clamping Voltage		最大峰值電流 8/20 μ S Withstanding Surge Current		能量/耐量 Energy 10/1000 μ S		最大 額定功率 Rated Power	電容量 (參考值) Typical Capacitance (Reference)
標準系列 Standard	高能品(H) High Surge	AC (V)	DC (V)	V1 mA(V)	IP (A)	VC (V)	標準系列 I(A) Standard	高能品 I(A) High Surge	標準系列 J) Standard	高能品 H) High Surge	(W)	1KHz(PF)
JEC-14D180K	JEC-14D180KH	11	14	18(15~21.6)	10	36	1000	2000	4	7	0.1	11000
JEC-14D220K	JEC-14D220KH	14	18	22(19.5~26)	10	43			5	8	0.1	9100
JEC-14D270K	JEC-14D270KH	17	22	27(24~31)	10	53			6	10	0.1	7400
JEC-14D330K	JEC-14D330KH	20	26	33(29.5~36.5)	10	65			8	12	0.1	6100
JEC-14D390K	JEC-14D390KH	25	31	39(35~43)	10	77			9	13	0.1	5100
JEC-14D470K	JEC-14D470KH	30	38	47(42~52)	10	93			10	17	0.1	4300
JEC-14D560K	JEC-14D560KH	35	45	56(50~62)	10	110			11	20	0.1	3600
JEC-14D680K	JEC-14D680KH	40	56	68(61~75)	10	135			14	24	0.1	2900
JEC-14D820K	JEC-14D820KH	50	65	82(74~90)	50	135			22	27	0.6	2400
JEC-14D101K	JEC-14D101KH	60	85	100(90~110)	50	165			28	33	0.6	2000
JEC-14D121K	JEC-14D121KH	75	100	120(108~132)	50	200	32	40	0.6	1700		
JEC-14D151K	JEC-14D151KH	95	125	150(135~165)	50	250	40	53	0.6	1300		
JEC-14D181K	JEC-14D181KH	115	150	180(162~198)	50	300	50	60	0.6	1100		
JEC-14D201K	JEC-14D201KH	130	170	200(185~225)	50	330	57	70	0.6	1000		
JEC-14D221K	JEC-14D221KH	140	180	220(198~242)	50	360	60	78	0.6	900		
JEC-14D241K	JEC-14D241KH	150	200	240(216~264)	50	395	63	84	0.6	830		
JEC-14D271K	JEC-14D271KH	175	225	270(243~297)	50	455	70	99	0.6	740		
JEC-14D301K	JEC-14D301KH	190	250	300(270~330)	50	505	77	108	0.6	670		
JEC-14D331K	JEC-14D331KH	210	275	330(297~363)	50	550	85	115	0.6	610		
JEC-14D361K	JEC-14D361KH	230	300	360(324~396)	50	595	93	130	0.6	560		
JEC-14D391K	JEC-14D391KH	250	320	390(351~429)	50	650	100	140	0.6	510		
JEC-14D431K	JEC-14D431KH	275	350	430(387~473)	50	710	115	155	0.6	460		
JEC-14D471K	JEC-14D471KH	300	385	470(423~517)	50	775	125	175	0.6	430		
JEC-14D511K	JEC-14D511KH	320	415	510(459~561)	50	845	126	180	0.6	390		
JEC-14D561K	JEC-14D561KH	350	460	560(504~616)	50	920	127	185	0.6	360		
JEC-14D621K	JEC-14D621KH	385	505	620(558~682)	50	1025	128	190	0.6	320		
JEC-14D681K	JEC-14D681KH	420	560	680(612~748)	50	1120	130	200	0.6	290		
JEC-14D751K	JEC-14D751KH	460	615	750(675~825)	50	1240	143	210	0.6	270		
JEC-14D781K	JEC-14D781KH	485	640	780(702~858)	50	1290	148	220	0.6	260		
JEC-14D821K	JEC-14D821KH	510	670	820(738~902)	50	1355	157	235	0.6	240		
JEC-14D911K	JEC-14D911KH	550	745	910(819~1001)	50	1500	175	255	0.6	220		
JEC-14D102K	JEC-14D102KH	625	825	1000(900~1100)	50	1650	190	280	0.6	200		
JEC-14D112K	JEC-14D112KH	680	895	1100(990~1210)	50	1815	213	310	0.6	180		

電氣特性 Electrical Characteristics

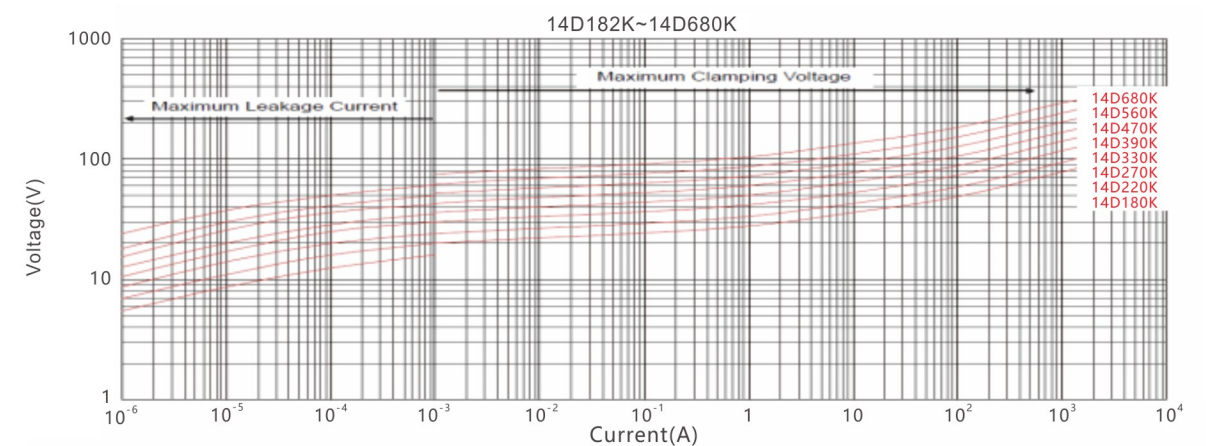
14D标准系列及高能品系列 Standard series and high joule series

產品型號 Part Number		最大允許 回路電壓 Maximum Allowable Voltage		壓敏電壓 Varistor Voltage	最大 限制電壓 Maximum Clamping Voltage		最大峰值電流 8/20 μ S Withstanding Surge Current		能量/耐量 Energy 10/1000 μ S		最大 額定功率 Rated Power	電容量 (參考值) Typical Capacitance (Reference)
標準系列 Standard	高能品(H) High Surge	AC (V)	DC (V)	V1mA(V)	IP (A)	VC (V)	標準系列 I(A) Standard	高能品 I(A) High Surge	標準系列 J) Standard	高能品 H) High Surge	(W)	1KHz(PF)
JEC-14D122K	JEC-14D122KH	750	990	1200(1080~1320)	50	1980	4500	6000	232	324	0.6	160
JEC-14D142K	JEC-14D142KH	880	1140	1400(1260~1540)	50	2310			238	327	0.6	150
JEC-14D152K	JEC-14D152KH	900	1200	1500(1350~1650)	50	2475			240	329	0.6	140
JEC-14D162K	JEC-14D162KH	1000	1280	1600(1400~1760)	50	2640			243	331	0.6	140
JEC-14D182K	JEC-14D182KH	1100	1465	1800(1620~1980)	50	2970			250	335	0.6	130

最大沖擊電流減額曲線 Maximum Surge Current Derating Curve



最大漏電流與最大限制電壓曲線 Maximum Leakage Current and Maximum Clamping Voltage Curve



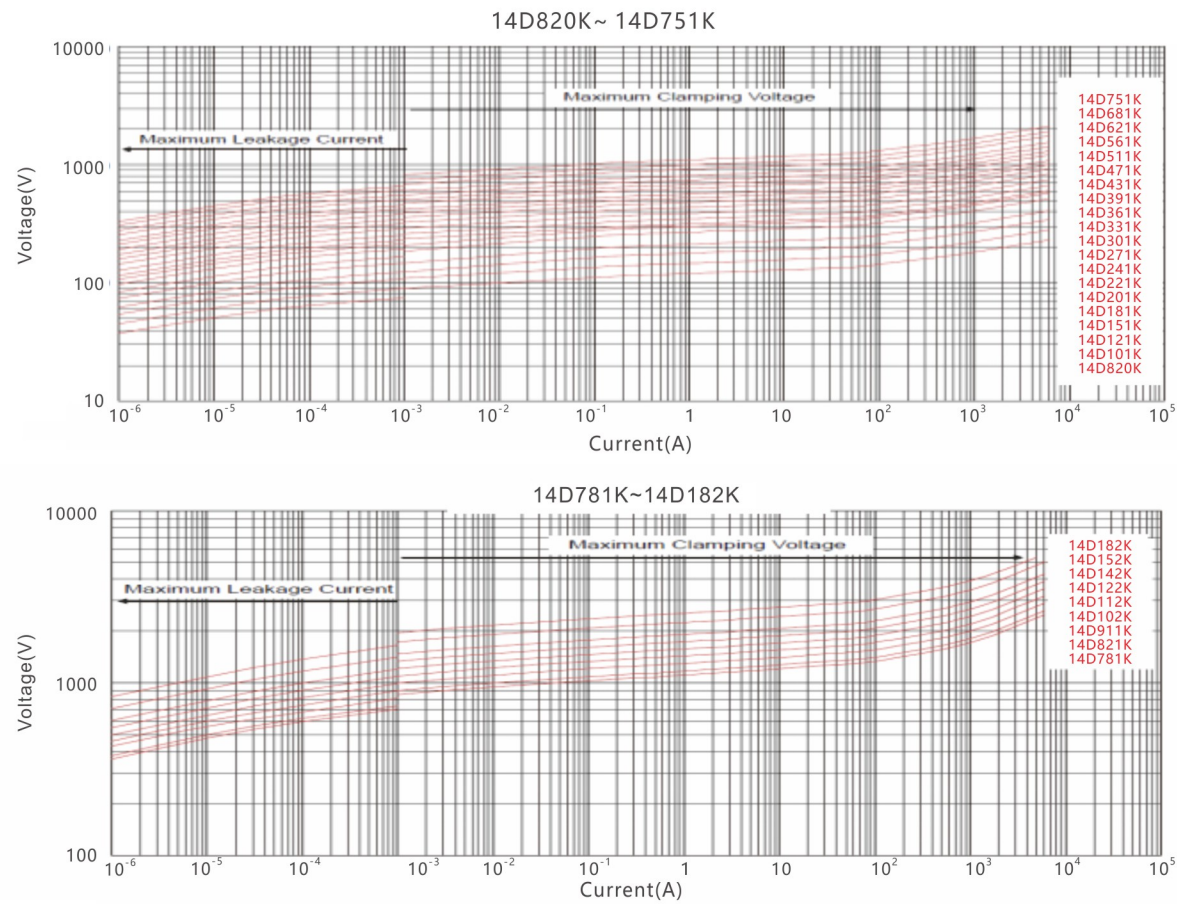
14D SERIES 氧化鋅壓敏電阻器

Zinc Oxide varistor

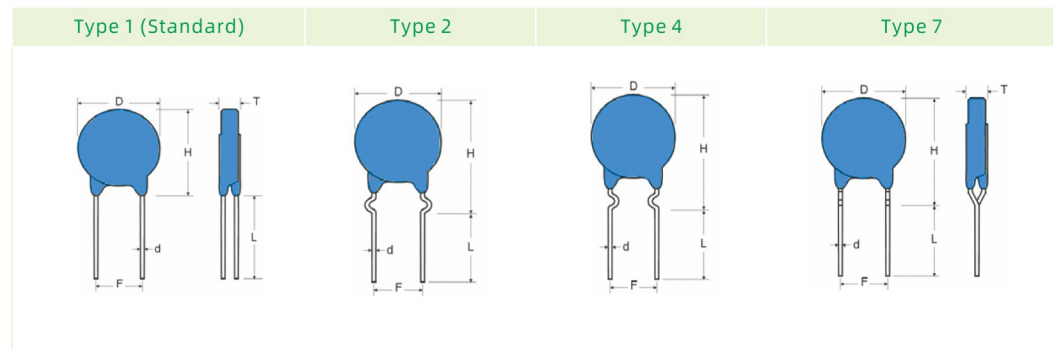
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最大漏電流與最大限制電壓曲線 Maximum Leakage Current and Maximum Clamping Voltage Curve



尺寸 Dimensions(mm)



產品型號 Part No.	D Max.	H Max.		L min.	F ±0.8	d ±0.05	T Max.
		Type 1	Type 2 / 4 / 7				
JEC-14D180K	17.0	18.0	21.0	25.0	7.5	0.8	4.0
JEC-14D220K	17.0	18.0	21.0	25.0	7.5	0.8	4.0
JEC-14D270K	17.0	18.0	21.0	25.0	7.5	0.8	4.0
JEC-14D330K	17.0	18.0	21.0	25.0	7.5	0.8	4.2
JEC-14D390K	17.0	18.0	21.0	25.0	7.5	0.8	4.5
JEC-14D470K	17.0	18.0	21.0	25.0	7.5	0.8	4.5
JEC-14D560K	17.0	18.0	21.0	25.0	7.5	0.8	4.1
JEC-14D680K	17.0	18.0	21.0	25.0	7.5	0.8	4.1
JEC-14D820K	17.0	18.0	21.0	25.0	7.5	0.8	4.1
JEC-14D101K	17.0	18.0	21.0	25.0	7.5	0.8	4.3
JEC-14D121K	17.0	18.0	21.0	25.0	7.5	0.8	4.5
JEC-14D151K	17.0	18.0	21.0	25.0	7.5	0.8	4.8
JEC-14D181K	17.0	18.0	21.0	25.0	7.5	0.8	4.1
JEC-14D201K	17.0	18.0	21.0	25.0	7.5	0.8	4.1
JEC-14D221K	17.0	18.0	21.0	25.0	7.5	0.8	4.2
JEC-14D241K	17.0	18.0	21.0	25.0	7.5	0.8	4.3
JEC-14D271K	17.0	18.0	21.0	25.0	7.5	0.8	4.5
JEC-14D301K	17.0	18.0	21.0	25.0	7.5	0.8	4.7
JEC-14D331K	17.0	18.0	21.0	25.0	7.5	0.8	4.8
JEC-14D361K	17.0	18.0	21.0	25.0	7.5	0.8	5.0
JEC-14D391K	17.0	18.0	21.0	25.0	7.5	0.8	5.1
JEC-14D431K	17.0	18.0	21.0	25.0	7.5	0.8	5.3
JEC-14D471K	17.0	18.0	21.0	25.0	7.5	0.8	5.6
JEC-14D511K	17.0	18.0	21.0	25.0	7.5	0.8	5.8
JEC-14D561K	17.0	18.0	21.0	25.0	7.5	0.8	6.2
JEC-14D621K	17.0	18.0	21.0	25.0	7.5	0.8	6.4
JEC-14D681K	17.0	18.0	21.0	25.0	7.5	0.8	6.4
JEC-14D751K	17.0	18.0	21.0	25.0	7.5	0.8	6.5
JEC-14D781K	17.0	18.0	21.0	25.0	7.5	0.8	6.8
JEC-14D821K	17.0	18.0	21.0	25.0	7.5	0.8	7.2
JEC-14D911K	17.0	18.0	21.0	25.0	7.5	0.8	7.6
JEC-14D102K	17.0	18.0	21.0	25.0	7.5	0.8	7.8
JEC-14D112K	17.0	18.0	21.0	25.0	7.5	0.8	8.5
JEC-14D152K	17.0	18.0	21.0	25.0	7.5	0.8	11
JEC-14D182K	17.0	18.0	21.0	25.0	7.5	0.8	12.5

20D SERIES 氧化鋅壓敏電阻器

Zinc Oxide varistor

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電氣特性 Electrical Characteristics

20D标准系列及高能品系列 Standard series and high joule series

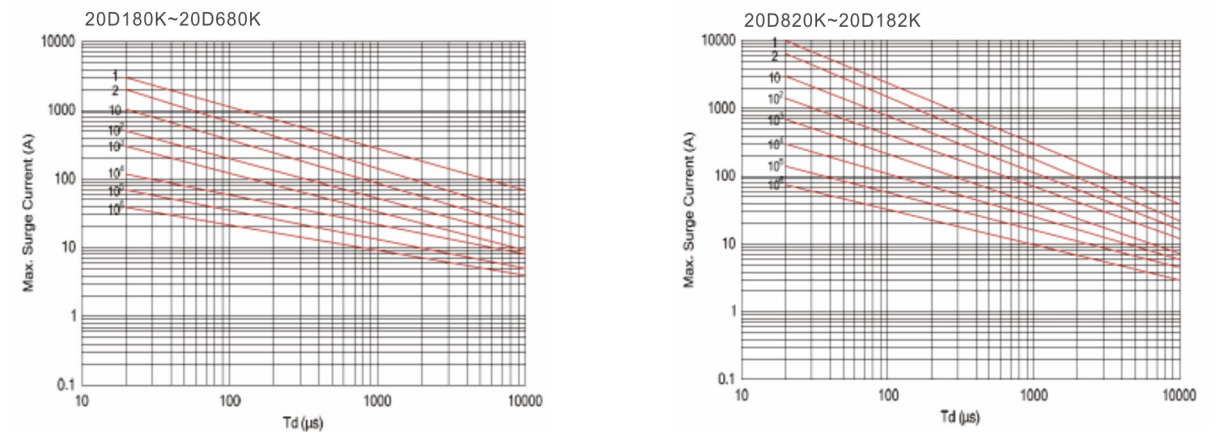
產品型號 Part Number		最大允許 回路電壓 Maximum Allowable Voltage		壓敏電壓 Varistor Voltage		最大 限制電壓 Maximum Clamping Voltage		最大峰值電流 8/20 μ S Withstanding Surge Current		能量/耐量 Energy 10/1000 μ S		最大 額定功率 Rated Power	電容量 (參考值) Typical Capacitance (Reference)
標準系列 Standard	高能品(H) High Surge	AC (V)	DC (V)	V1mA (V)	IP (A)	VC (V)	標準系列 I(A) Standard	高能品 I(A) High Surge	標準系列 J Standard	高能品 J High Surge	(W)	1KHz(PF)	
JEC-20D180K	JEC-20D180KH	11	14	18(15~21.6)	20	36	2000	3000	11	13	0.2	28500	
JEC-20D220K	JEC-20D220KH	14	18	22(19.5~26)	20	43			14	16	0.2	18500	
JEC-20D270K	JEC-20D270KH	17	22	27(24~31)	20	53			16	19	0.2	13000	
JEC-20D330K	JEC-20D330KH	20	26	33(29.5~36.5)	20	65			23	24	0.2	11500	
JEC-20D390K	JEC-20D390KH	25	31	39(35~43)	20	77			26	28	0.2	8500	
JEC-20D470K	JEC-20D470KH	30	38	47(42~52)	20	93			30	34	0.2	7400	
JEC-20D560K	JEC-20D560KH	35	45	56(50~62)	20	110			41	46	0.2	6500	
JEC-20D680K	JEC-20D680KH	40	56	68(61~75)	20	135			46	49	0.2	5800	
JEC-20D820K	JEC-20D820KH	50	65	82(74~90)	100	135			38	56	1.0	4900	
JEC-20D101K	JEC-20D101KH	60	85	100(90~110)	100	165			45	70	1.0	4000	
JEC-20D121K	JEC-20D121KH	75	100	120(108~132)	100	200	55	85	1.0	3300			
JEC-20D151K	JEC-20D151KH	95	125	150(135~165)	100	250	70	106	1.0	2700			
JEC-20D181K	JEC-20D181KH	115	150	180(162~198)	100	300	85	130	1.0	2200			
JEC-20D201K	JEC-20D201KH	130	170	200(185~225)	100	330	95	140	1.0	2000			
JEC-20D221K	JEC-20D221KH	140	180	220(198~242)	100	360	100	155	1.0	1800			
JEC-20D241K	JEC-20D241KH	150	200	240(216~264)	100	395	108	168	1.0	1650			
JEC-20D271K	JEC-20D271KH	175	225	270(243~297)	100	455	127	190	1.0	1500			
JEC-20D301K	JEC-20D301KH	190	250	300(270~330)	100	505	136	210	1.0	1300			
JEC-20D331K	JEC-20D331KH	210	275	330(297~363)	100	550	150	228	1.0	1200			
JEC-20D361K	JEC-20D361KH	230	300	360(324~396)	100	595	163	255	1.0	1100			
JEC-20D391K	JEC-20D391KH	250	320	390(351~429)	100	650	180	275	1.0	1000			
JEC-20D431K	JEC-20D431KH	275	350	430(387~473)	100	710	190	305	1.0	930			
JEC-20D471K	JEC-20D471KH	300	385	470(423~517)	100	775	220	350	1.0	850			
JEC-20D511K	JEC-20D511KH	320	415	510(459~561)	100	845	225	360	1.0	780			
JEC-20D561K	JEC-20D561KH	350	460	560(504~616)	100	920	230	380	1.0	710			
JEC-20D621K	JEC-20D621KH	385	505	620(558~682)	100	1025	235	390	1.0	650			
JEC-20D681K	JEC-20D681KH	420	560	680(612~748)	100	1120	240	400	1.0	600			
JEC-20D751K	JEC-20D751KH	460	615	750(675~825)	100	1240	255	420	1.0	530			
JEC-20D781K	JEC-20D781KH	485	640	780(702~858)	100	1290	265	440	1.0	510			
JEC-20D821K	JEC-20D821KH	510	670	820(738~902)	100	1355	282	460	1.0	500			
JEC-20D911K	JEC-20D911KH	550	745	910(819~1001)	100	1500	310	510	1.0	440			
JEC-20D102K	JEC-20D102KH	625	825	1000(900~1100)	100	1650	342	565	1.0	400			
JEC-20D112K	JEC-20D112KH	680	895	1100(990~1210)	100	1815	383	620	1.0	360			

電氣特性 Electrical Characteristics

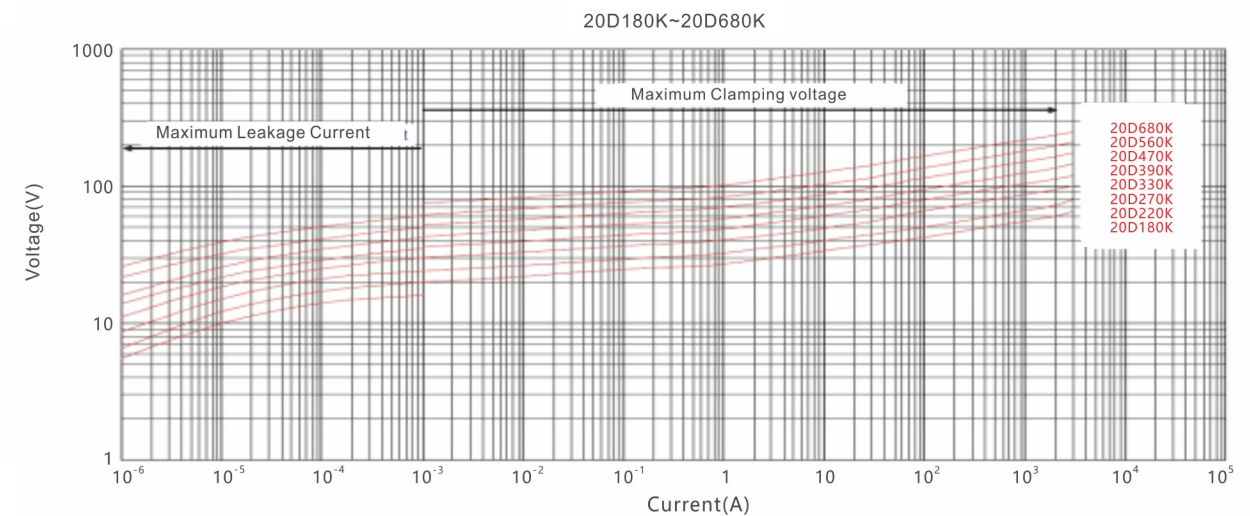
20D标准系列及高能品系列 Standard series and high joule series

產品型號 Part Number		最大允許 回路電壓 Maximum Allowable Voltage		壓敏電壓 Varistor Voltage		最大 限制電壓 Maximum Clamping Voltage		最大峰值電流 8/20 μ S Withstanding Surge Current		能量/耐量 Energy 10/1000 μ S		最大 額定功率 Rated Power	電容量 (參考值) Typical Capacitance (Reference)
標準系列 Standard	高能品(H) High Surge	AC (V)	DC (V)	V1mA (V)	IP (A)	VC (V)	標準系列 I(A) Standard	高能品 I(A) High Surge	標準系列 J Standard	高能品 J High Surge	(W)	1KHz(PF)	
JEC-20D122K	JEC-20D122KH	750	990	1200(1080~1320)	100	1980	6500	10000	408	660	1.0	350	
JEC-20D142K	JEC-20D142KH	880	1140	1400(1260~1540)	100	2310			532	784	1.0	340	
JEC-20D152K	JEC-20D152KH	900	1200	1500(1350~1650)	100	2474			572	854	1.0	330	
JEC-20D162K	JEC-20D162KH	1000	1280	1600(1400~1760)	100	2640			606	896	1.0	330	
JEC-20D182K	JEC-20D182KH	1100	1465	1800(1620~1980)	100	2970			625	990	1.0	320	

最大沖擊電流減額曲線 Maximum Surge Current Derating Curve



最大漏電流與最大限制電壓曲線 Maximum Leakage Current and Maximum Clamping Voltage Curve



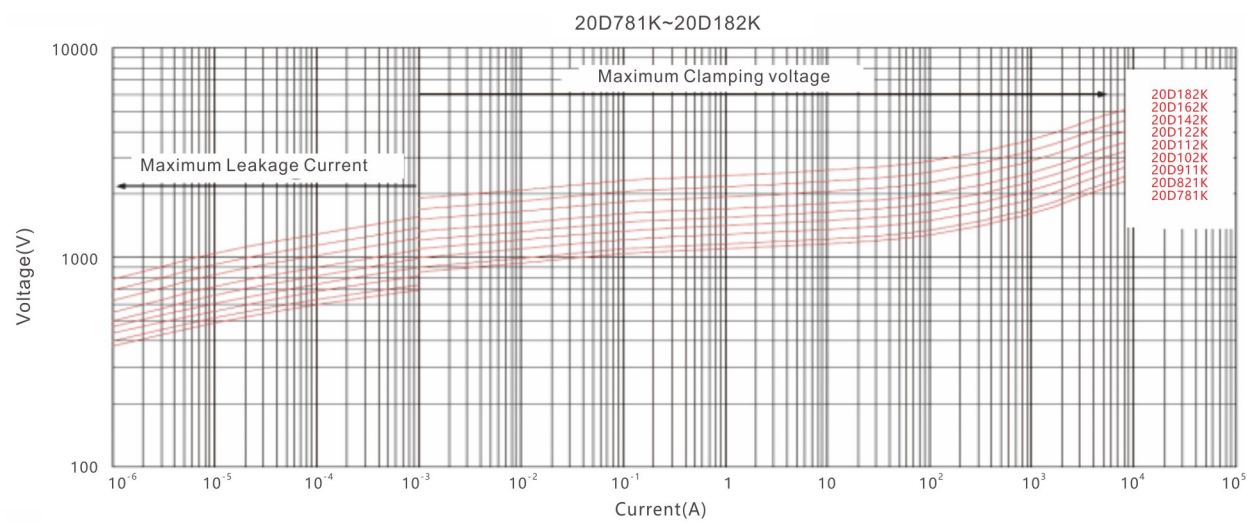
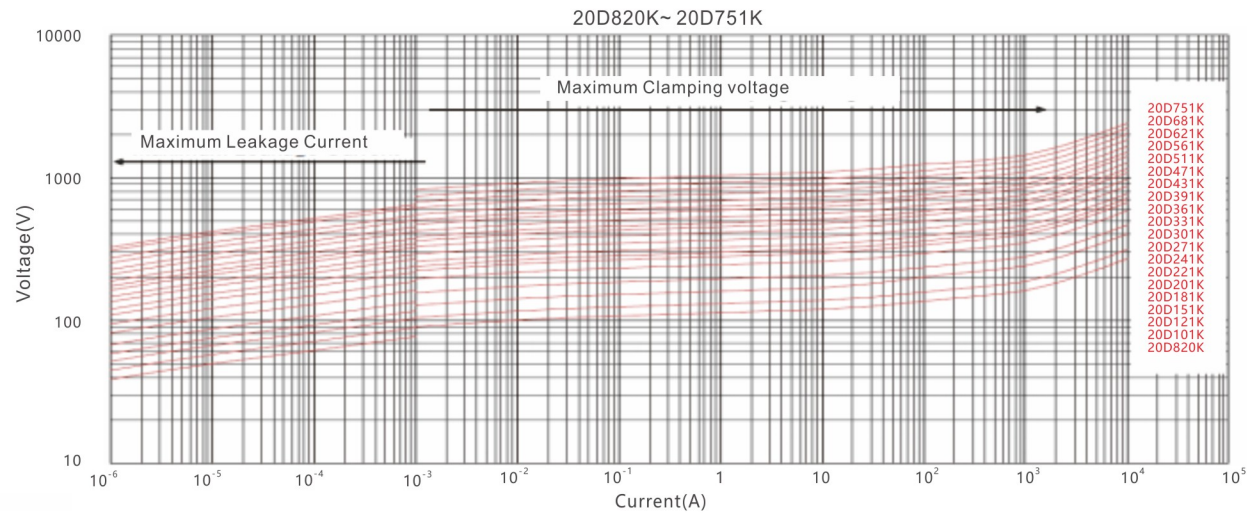
20D SERIES 氧化鋅壓敏電阻器

Zinc Oxide varistor

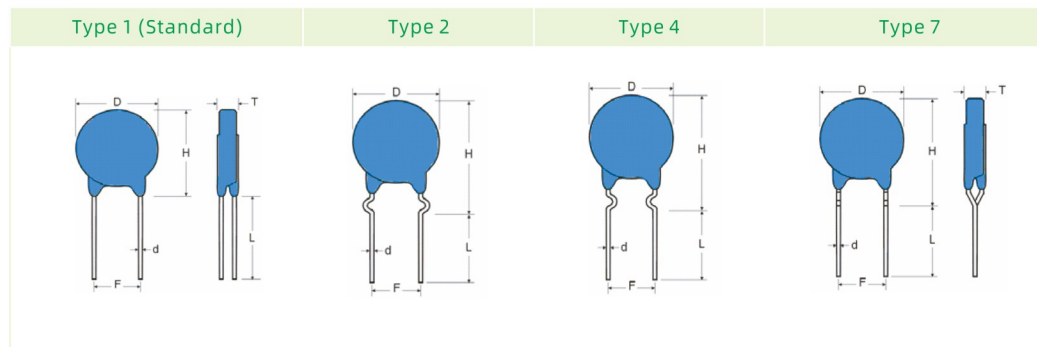
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最大漏電流與最大限制電壓曲線 Maximum Leakage Current and Maximum Clamping Voltage Curve



尺寸 Dimensions(mm)



產品型號 Part No.	D Max.	H Max.		L min.	F ±0.8	d ±0.05	T Max.
		Type 1	Type 2 / 4 / 7				
JEC-20D182K	23.0	25.0	28.0	25.0	10.0	1.0	12.5
JEC-20D152K	23.0	25.0	28.0	25.0	10.0	1.0	11.0
JEC-20D112K	23.0	25.0	28.0	25.0	10.0	1.0	8.5
JEC-20D102K	23.0	25.0	28.0	25.0	10.0	1.0	7.8
JEC-20D911K	23.0	25.0	28.0	25.0	10.0	1.0	7.6
JEC-20D821K	23.0	25.0	28.0	25.0	10.0	1.0	7.2
JEC-20D781K	23.0	25.0	28.0	25.0	10.0	1.0	6.8
JEC-20D751K	23.0	25.0	28.0	25.0	10.0	1.0	6.5
JEC-20D681K	23.0	25.0	28.0	25.0	10.0	1.0	6.4
JEC-20D621K	23.0	25.0	28.0	25.0	10.0	1.0	6.4
JEC-20D561K	23.0	25.0	28.0	25.0	10.0	1.0	6.2
JEC-20D511K	23.0	25.0	28.0	25.0	10.0	1.0	5.8
JEC-20D471K	23.0	25.0	28.0	25.0	10.0	1.0	5.6
JEC-20D431K	23.0	25.0	28.0	25.0	10.0	1.0	5.3
JEC-20D391K	23.0	25.0	28.0	25.0	10.0	1.0	5.1
JEC-20D361K	23.0	25.0	28.0	25.0	10.0	1.0	5.0
JEC-20D331K	23.0	25.0	28.0	25.0	10.0	1.0	4.8
JEC-20D301K	23.0	25.0	28.0	25.0	10.0	1.0	4.7
JEC-20D271K	23.0	25.0	28.0	25.0	10.0	1.0	4.5
JEC-20D241K	23.0	25.0	28.0	25.0	10.0	1.0	4.3
JEC-20D221K	23.0	25.0	28.0	25.0	10.0	1.0	4.2
JEC-20D201K	23.0	25.0	28.0	25.0	10.0	1.0	4.1
JEC-20D181K	23.0	25.0	28.0	25.0	10.0	1.0	4.1
JEC-20D151K	23.0	25.0	28.0	25.0	10.0	1.0	4.8
JEC-20D121K	23.0	25.0	28.0	25.0	10.0	1.0	4.5
JEC-20D101K	23.0	25.0	28.0	25.0	10.0	1.0	4.3
JEC-20D820K	23.0	25.0	28.0	25.0	10.0	1.0	4.1
JEC-20D680K	23.0	25.0	28.0	25.0	10.0	1.0	4.1
JEC-20D560K	23.0	25.0	28.0	25.0	10.0	1.0	4.1
JEC-20D470K	23.0	25.0	28.0	25.0	10.0	1.0	4.5
JEC-20D390K	23.0	25.0	28.0	25.0	10.0	1.0	4.5
JEC-20D330K	23.0	25.0	28.0	25.0	10.0	1.0	4.2
JEC-20D270K	23.0	25.0	28.0	25.0	10.0	1.0	4.0
JEC-20D220K	23.0	25.0	28.0	25.0	10.0	1.0	4.0
JEC-20D180K	23.0	25.0	28.0	25.0	10.0	1.0	4.0

25D SERIES 氧化鋅壓敏電阻器

Zinc Oxide varistor

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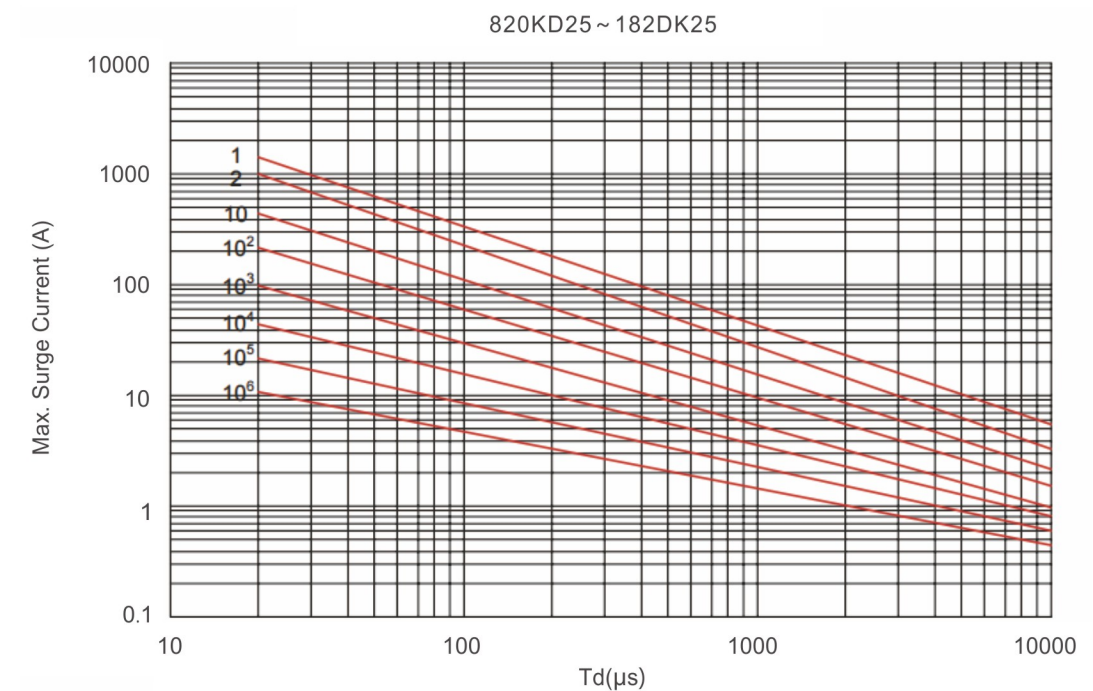
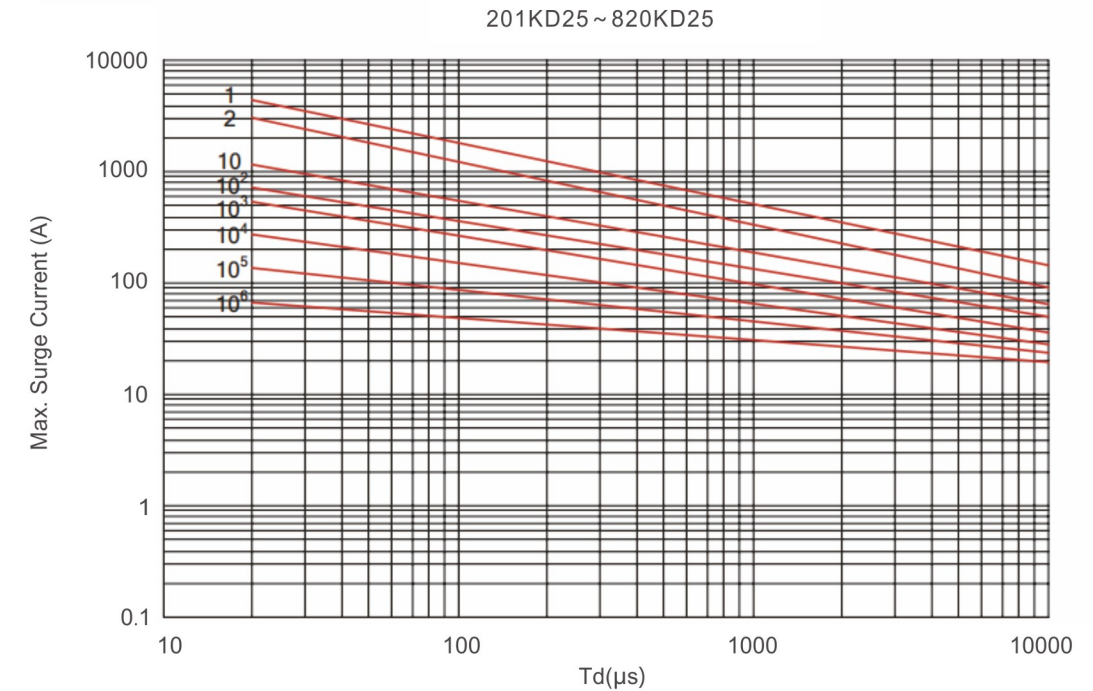


電氣特性 Electrical Characteristics

25D標準系列及高能品系列 Standard series and high joule series

產品型號 Part Number		最大允許 回路電壓 Maximum Allowable Voltage		壓敏電壓 Varistor Voltage	最大 限制電壓 Maximum Clamping Voltage		最大峰值電流 8/20 μ S Withstanding Surge Current		能量/耐量 Energy 10/1000 μ S		最大 額定功率 Rated Power	電容量 (參考值) Typical Capacitance (Reference)
標準系列 Standard	高能品(H) High Surge	AC (V)	DC (V)	V1mA (V)	IP (A)	VC (V)	標準系列 I(A) Standard	高能品 I(A) High Surge	標準系列 J Standard	高能品 J High Surge	(W)	1KHz(PF)
JEC-25D201K	JEC-25D201KH	130	170	200(185~225)	150	330	15000	20000	190	228	1.2	3200
JEC-25D221K	JEC-25D221KH	140	180	220(198~242)	150	360			200	240	1.2	2900
JEC-25D241K	JEC-25D241KH	150	200	240(216~264)	150	395			220	264	1.2	2650
JEC-25D271K	JEC-25D271KH	175	225	270(243~297)	150	455			255	306	1.2	2400
JEC-25D301K	JEC-25D301KH	190	250	300(270~330)	150	505			275	330	1.2	2100
JEC-25D331K	JEC-25D331KH	210	275	330(297~363)	150	550			300	360	1.2	1900
JEC-25D361K	JEC-25D361KH	230	300	360(324~396)	150	595			330	396	1.2	1750
JEC-25D391K	JEC-25D391KH	250	320	390(351~429)	150	650			360	432	1.2	1600
JEC-25D431K	JEC-25D431KH	275	350	430(387~473)	150	710			380	456	1.2	1500
JEC-25D471K	JEC-25D471KH	300	385	470(423~517)	150	775			400	480	1.2	1400
JEC-25D511K	JEC-25D511KH	320	415	510(459~561)	150	845			420	504	1.2	1250
JEC-25D561K	JEC-25D561KH	350	460	560(504~616)	150	920			440	528	1.2	1150
JEC-25D621K	JEC-25D621KH	385	505	620(558~682)	150	1025			450	540	1.2	1050
JEC-25D681K	JEC-25D681KH	420	560	680(612~748)	150	1120			460	552	1.2	950
JEC-25D751K	JEC-25D751KH	460	615	750(675~825)	150	1240			510	612	1.2	850
JEC-25D781K	JEC-25D781KH	485	640	780(702~858)	150	1290			530	636	1.2	850
JEC-25D821K	JEC-25D821KH	510	670	820(738~902)	150	1355			570	684	1.2	500
JEC-25D911K	JEC-25D911KH	550	745	910(819~1001)	150	1500			620	744	1.2	700
JEC-25D102K	JEC-25D102KH	625	825	1000(900~1100)	150	1650			685	822	1.2	650
JEC-25D112K	JEC-25D112KH	680	895	1100(990~1210)	150	1815			720	864	1.2	600
JEC-25D122K	JEC-25D122KH	750	990	1200(1080~1320)	150	1980	795	954	1.2	550		
JEC-25D142K	JEC-25D142KH	880	1140	1400(1260~1540)	150	2310	850	1020	1.2	500		
JEC-25D162K	JEC-25D162KH	1000	1280	1600(1400~1760)	150	2640	970	1164	1.2	450		
JEC-25D182K	JEC-25D182KH	1100	1465	1800(1620~1980)	150	2970	1092	1310	1.2	400		

最大漏電流與最大限制電壓曲線 Maximum Leakage Current and Maximum Clamping Voltage Curve



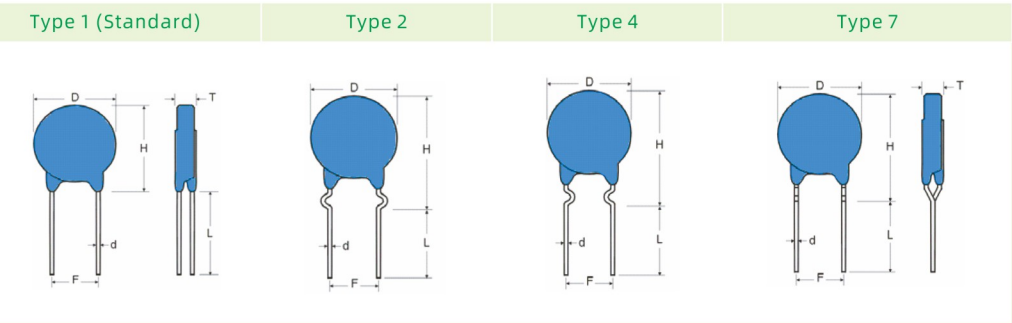
25D SERIES 氧化鋅壓敏電阻器

Zinc Oxide varistor

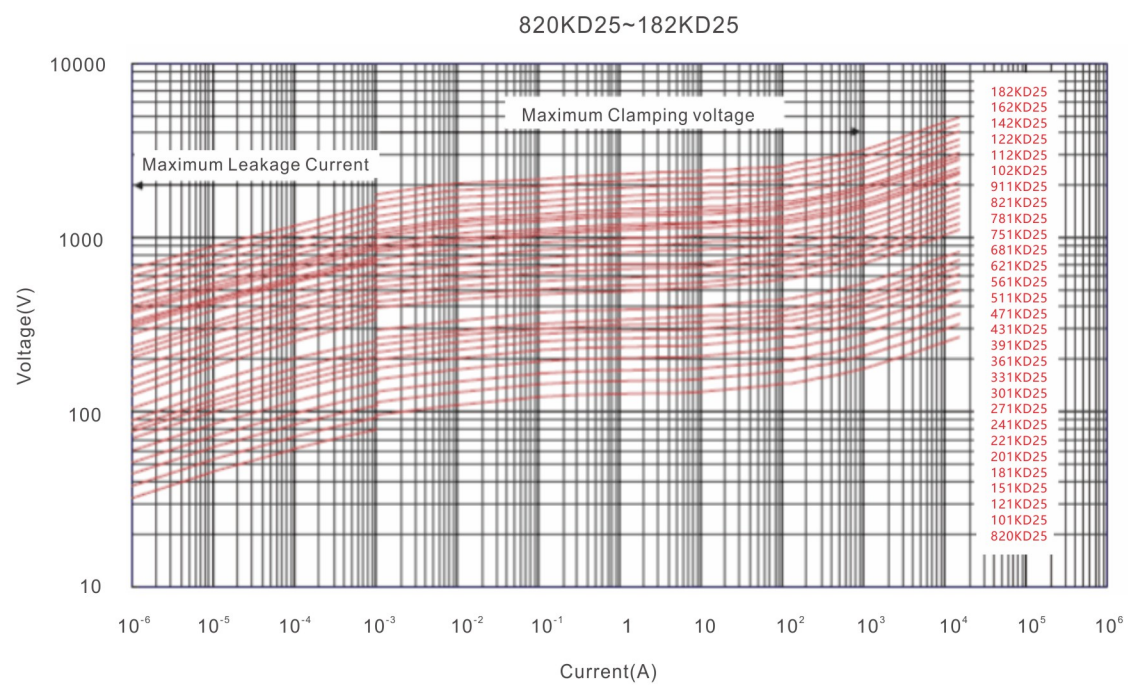
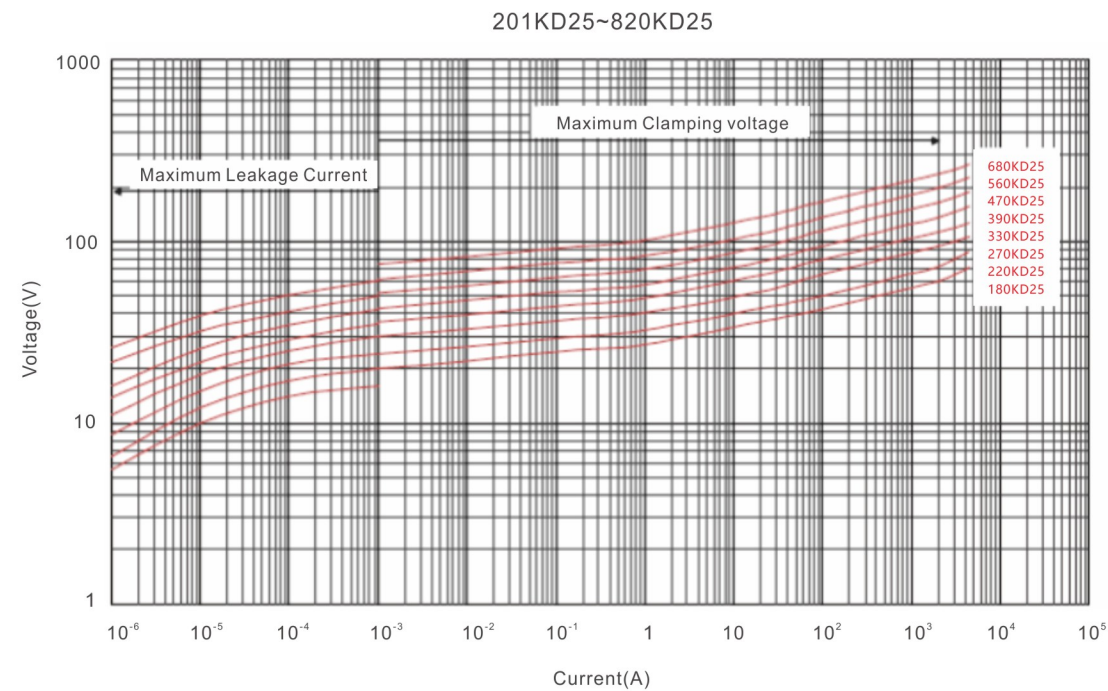
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尺寸 Dimensions(mm)



最大漏電流與最大限制電壓曲線 Maximum Leakage Current and Maximum Clamping Voltage Curve



產品型號 Part No.	T Max.	D Max.	H Max.		L min.	F		d + 0.05
			S	I / C / Y				
JEC-25D201K	5.3	28.0	32.0	34.0	25.0	10.0±1.0	12.5±1.0	1.0
JEC-25D221K	5.8	28.0	32.0	34.0	25.0	10.0±1.0	12.5±1.0	1.0
JEC-25D241K	5.3	28.0	32.0	34.0	25.0	10.0±1.0	12.5±1.0	1.0
JEC-25D271K	5.4	28.0	32.0	34.0	25.0	10.0±1.0	12.5±1.0	1.0
JEC-25D301K	5.5	28.0	32.0	34.0	25.0	10.0±1.0	12.5±1.0	1.0
JEC-25D331K	5.7	28.0	32.0	34.0	25.0	10.0±1.0	12.5±1.0	1.0
JEC-25D361K	6.0	28.0	32.0	34.0	25.0	10.0±1.0	12.5±1.0	1.0
JEC-25D391K	6.2	28.0	32.0	34.0	25.0	10.0±1.0	12.5±1.0	1.0
JEC-25D431K	6.6	28.0	32.0	34.0	25.0	10.0±1.0	12.5±1.0	1.0
JEC-25D471K	6.7	28.0	32.0	34.0	25.0	10.0±1.0	12.5±1.0	1.0
JEC-25D511K	7.0	28.0	32.0	34.0	25.0	10.0±1.0	12.5±1.0	1.0
JEC-25D561K	7.4	28.0	32.0	34.0	25.0	10.0±1.0	12.5±1.0	1.0
JEC-25D621K	7.7	28.0	32.0	34.0	25.0	10.0±1.0	12.5±1.0	1.0
JEC-25D681K	7.8	28.0	32.0	34.0	25.0	10.0±1.0	12.5±1.0	1.0
JEC-25D751K	8.0	28.0	32.0	34.0	25.0	10.0±1.0	12.5±1.0	1.0
JEC-25D781K	8.2	28.0	32.0	34.0	25.0	10.0±1.0	12.5±1.0	1.0
JEC-25D821K	8.4	28.0	32.0	34.0	25.0	10.0±1.0	12.5±1.0	1.0
JEC-25D911K	9.0	28.0	32.0	34.0	25.0	10.0±1.0	12.5±1.0	1.0
JEC-25D102K	9.5	28.0	32.0	34.0	25.0	10.0±1.0	12.5±1.0	1.0
JEC-25D112K	10.1	28.0	32.0	34.0	25.0	10.0±1.0	12.5±1.0	1.0
JEC-25D122K	10.8	28.0	32.0	34.0	25.0	10.0±1.0	12.5±1.0	1.0
JEC-25D142K	12.6	28.0	32.0	34.0	25.0	10.0±1.0	12.5±1.0	1.0
JEC-25D162K	13.2	28.0	32.0	34.0	25.0	10.0±1.0	12.5±1.0	1.0
JEC-25D182K	14.5	28.0	32.0	34.0	25.0	10.0±1.0	12.5±1.0	1.0

05D-25D SERIES

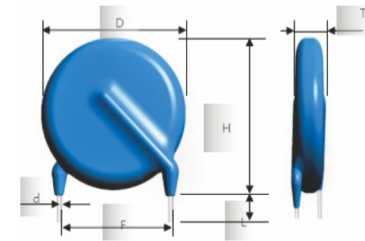
高溫型氧化鋅壓敏電阻器 High Temperature Type Metal Oxide Varistor



● 結構圖 Construction



● 尺寸代碼 Dimensions Code



▶ 特點 Features

產品的操作溫度為130°C，所以可以在更嚴苛的環境下提供過溫度保護或溫度控制，推薦的應用為高價伺服器、家電、工控儀表等產品。

High operating temperature 130°C of the device enables it to offer over-temperature protection or temperature measurement under more stringent operating environment. Therefore, it is recommended to high-end servers, home appliances, industrial control equipments, and etc.

▶ 推薦應用領域 Typical Application

- 用於保護半導體元件（二極體,三極管,可控矽,IC等）
- 用於保護民用電子設備
- 用於保護通信,計測,控制裝置
- Transistor, diode, IC, thyristor or triac semiconductor protection
- Surge protection in consumer electronic equipment
- Surge protection in communication, measuring or controller electronics

產品類別 Product Type	代碼 Code	說明 Note
高溫標準型 High Temperature Standard Type		
高溫高能型 High Temperature High Surge Type	H	耐浪湧電流等級 Withstanding Surge Current Class
高溫組合波型 High Temperature Combination Wave Type	E□S□Y□	E,S,Y=衝擊等級 Pulse class ; □=衝擊次數 Pulsing times

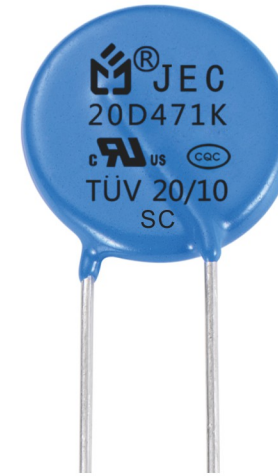
系列 Series	可容許之最大電壓 Maximun Allowable Voltage		壓敏電壓 Varistor Voltage			最大抑制電壓 Maximun Clamping Voltage	
	AC rms(V)	DC(V)	Min.	Vb(Vdc)	Max.	Vc(V)	Ip(A)
05D~25D	11~1100	14~1465	15~1620	18~1800	21~1980	36~2970	1~150
工作/儲存溫度範圍 Operating /Storage Temperature			-40°C ~ +85°C / -40°C ~ +130°C				

▶ 認證標準及編號 Approvals Standard And File No.

相關標準 Related Standard	證書號 Certificate No.	產品型號 Part No.	認證標示 Approved Monogram
CQC (China)	GB/T10193;GB/T10194 GB4943.1;GB8898	CQC19001221485 / CQC19001221471 CQC19001221472 / CQC19001221473 CQC19001221470 / CQC19001221474	05D180K~25D182K
CUL(USA)CSA	UL1449	E486000	05D180K~20D182K
TUV(Germany)	IEC61051;IEC 60950	B105842 0001 REV.00	05D180k-25D182k

07D-20D SERIES

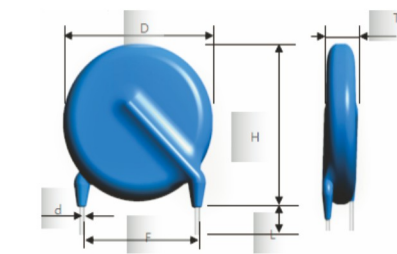
組合波型氧化鋅壓敏電阻器 Combination Wave Type Metal Oxide Varistor



● 結構圖 Construction



● 尺寸代碼 Dimensions Code



▶ 特點 Features

產品可耐受6KV/3KA組合波，符合此標準的產品尺寸有直徑7mm、10mm、14mm、20mm，壓敏電壓為180V~1800V壓敏電壓相容範圍廣。

Products pass 6KV/3KA combination wave test. Products are compliant with the standards and their body sizes are available in 7mm, 10 mm, 14 mm, and 20 mm (diameter) Wide range of varistor voltages.

▶ 推薦應用領域 Typical Application

- 用於保護半導體元件（二極體,三極管,可控矽,IC等）
- 用於保護民用電子設備
- 用於保護通信,計測,控制裝置
- Transistor, diode, IC, thyristor or triac semiconductor protection
- Surge protection in consumer electronic equipment
- Surge protection in communication, measuring or controller electronics

▶ 組合波類別及代碼 Combination wave class and code

衝擊等級 Pulse class	衝擊次數 Pulsing times	15-20次(times)	20-30次(times)	30-40次(times)	40-60次(times)	>60次(times)
	4KV/2KA	EA	EB	EC	ED	EE
6KV/3KA	SA	SB	SC	SD	SE	
10KV/5KA	YA	YB	YC	YD	YE	

系列 Series	可容許之最大電壓 Maximun Allowable Voltage		壓敏電壓 Varistor Voltage			最大抑制電壓 Maximun Clamping Voltage	
	AC rms(V)	DC(V)	Min.	Vb(Vdc)	Max.	Vc(V)	Ip(A)
07D-20D	11~1100	14~1465	15~1620	18~1800	21~1980	38~2970	2.5~100
工作/儲存溫度範圍 Operating /Storage Temperature			-40~130°C				

▶ 認證標準及編號 Approvals Standard And File No.

相關標準 Related Standard	證書號 Certificate No.	產品型號 Part No.	認證標示 Approved Monogram
CQC (China)	GB/T10193;GB/T10194 GB4943.1;GB8898	CQC19001221485 / CQC19001221471 CQC19001221472 / CQC19001221473 CQC19001221470 / CQC19001221474	5D180K-25D182K
CUL(USA)CSA	UL1449	E486000	5D180K-20D182K
TUV(Germany)	IEC61051;IEC 60950	B105842 0001 REV.00	5D180k-25D182k

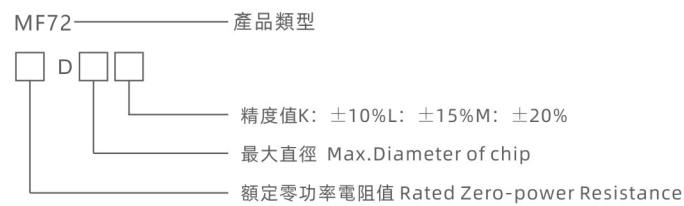
NTC SERIES 功率型負溫度係數熱敏電阻器

Power NTC Thermistor

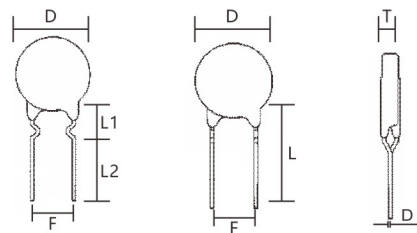


Series	Zero Power Resistance at 25°C 零功率電阻值25度	B-value 25/50°C(K)	Operation Temperature Range 工作溫度範圍
	R25(Ω)	Bmin(K)	TL~TU(°C) (°C)
NTC	0.7~400	D5~D25	55~200

● 產品標示說明 Description of product



● 外形尺寸 Shape size



▶ 特點 Features

- 體積小,功率大,抑制浪湧電流能力強
- 反應速度快,壽命長,可靠性高
- 材料常數(B值)大,殘餘電阻小
- 系列全,應用範圍寬
- Small size, strong power and strong capability of surge current protection
- Fast response to surge current, Longevity of service, High reliability
- Big material constant (B value), Small remain resistance
- Integral series, extensive operating range

▶ 推薦應用領域 Typical Application

- 轉換電源,開關電源,UPS電源
- 電子節能燈,鎮流器及各類加熱器
- 各類顯像管,顯示器
- 白熾燈,其他照明燈具
- Conversion power-supply, switch power, ups power
- Electronic energy saving lamps, electronic ballast and all kinds of electric heater
- All kinds of RT, display
- Bulb and other lighting lamps

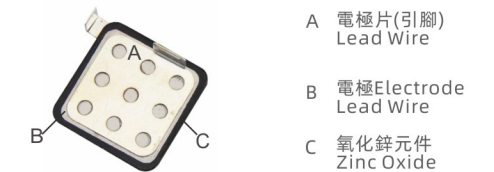
尺寸 (mm) 規格	代碼	D _{MAX}	T _{MAX}	D±0.05	F±1	L _{MIN}	L1±1.5	L2 _{MIN}
MF72□D-7	9	5	0.55	5	25	8/5	15.5/18.5	
MF72□D-9	11	6	0.55/0.75	5/7.5	25	8/5	15.5/18.5	
MF72□D-11	13	6.5	0.55/0.75	5/7.5	25	8/5	15.5/18.5	
MF72□D-13	15.5	7	0.75	7.5	25	8/5	15.5/18.5	
MF72□D-15	17.5	7	0.75	7.5	25	8/5	15.5/18.5	
MF72□D-20	22.5	7	1.0	10	25	/	15.5/18.5	
MF72□D-25	27.5	8	1.0	10	25	/	15.5/18.5	

34S SERIES 片式防雷壓敏電阻器

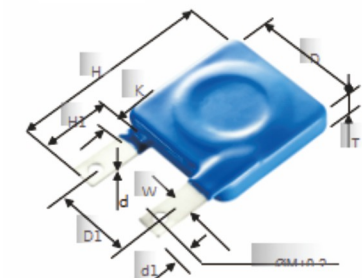
Block Type Varistor For Lightning Protection



● 結構圖 Construction



● 尺寸代碼 Dimensions Code



▶ 特點 Features

- 小型緊湊,耐電湧電流量大
- 能回應暫態電湧的卓越靈敏度
- 限制電壓低,保護效果可靠
- 無續流
- Very large surge withstanding capability with a compact size
- Fast response to steep impulse voltage
- Low clamping voltage for better surge protection
- No follow-on current

▶ 推薦應用領域 Typical Application

- 用於工業設備,通信設備用電源
- 交通或鐵路信號裝系統
- 用於配線電路遠端自動控制裝置浪湧保護
- Power suppliers for OA, FA, telecommunication or industrial equipment
- Traffic or railroad systems
- Surge protection of automatic control devices for power distribution line

性能指標 Technical Data

型號尺寸 Model Size	34mm×34mm					
工作/儲存溫度範圍 Operating / Storage Temperature	-40°C ~ +85°C / -40°C ~ +130°C					
耐浪湧電流 Withstanding Surge Current	30KA~60KA					
認證標志 Approved Monogram	UL					
耐浪湧電流 Series	可容許之最大電壓 Maximun Allowable Voltage		壓敏電壓 Varistor Voltage			最大抑制電壓 Maximun Clamping Voltage
	AC rms(V)	DC(V)	Min.	Vb(Vdc)	Max.	IP 300A(V)
34S Serie	130 ~ 1100	170 ~ 1465	180 ~ 1620	200 ~ 1800	220 ~ 1980	340 ~ 2920

34S SERIES

片式防雷壓敏電阻器 Block Type Varistor For Lightning Protection

勝特力電材超市-龍山店 886-3-5773766
 勝特力電材超市-光復店 886-3-5729570
 勝特力電子(上海) 86-21-34970699
 勝特力電子(深圳) 86-755-83298787
<http://www.100y.com.tw>

安規電容生產廠家·精工品質只為更安全
 Safety Capacitor Manufacturer · Seiko Quality Just to Be Safer



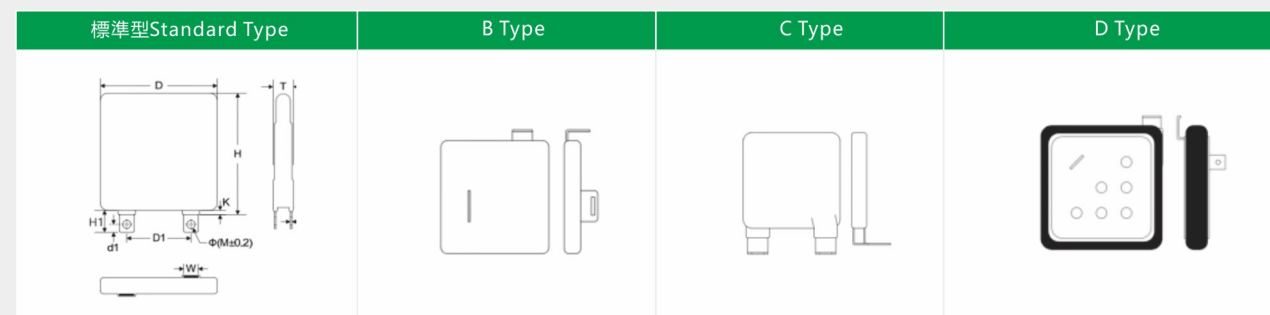
電氣特性 Electrical Characteristics

產品型號 Part No.	最大允許迴路電壓 Maximum Allowable Voltage		能量/耐量 Energy 10/1000us	最大峰值電流8/20μS Withstanding Surge Current		最大 額定功率 Rated Power (W)	壓敏電壓 Varistor Voltage AT 1mA (V)	最大限制電壓 Max Clamping Voltage AT 300A (V)	電容量 (參考值) Dapacitance 1KHz pF
	Acrms (V)	DC (V)		標準系列(A) Standard (A) I(A)	高能品 High Joule I Max				
	High Surge (J)								
34S130	130	170	330	40000	50000	2.1	200(180-220)	340	8000
34S140	140	180	360	40000	50000	2.1	220(198-242)	360	7800
34S150	150	200	390	40000	50000	2.1	240(216-264)	395	7600
34S175	175	225	420	40000	50000	2.1	270(243-297)	455	7200
34S190	190	250	460	40000	50000	2.1	300(270-330)	500	7000
34S210	210	275	500	40000	50000	2.1	330(297-363)	550	6400
34S230	230	300	510	40000	50000	2.1	360(324-396)	595	6000
34S250	250	320	530	40000	50000	2.1	390(351-429)	650	4800
34S275	275	350	600	40000	50000	2.1	430(387-473)	710	4600
34S300	300	385	650	40000	50000	2.1	470(423-517)	775	4100
34S320	320	415	700	40000	50000	2.1	510(459-561)	845	4000
34S350	350	460	730	40000	50000	2.1	560(504-616)	925	3800
34S385	385	505	780	40000	50000	2.1	620(558-682)	1025	3600
34S420	420	560	810	40000	50000	2.1	680(612-748)	1125	3300
34S460	460	615	850	40000	50000	2.1	750(675-825)	1240	3000
34S485	485	640	930	40000	50000	2.1	780(702-858)	1290	2850
34S510	510	670	970	40000	50000	2.1	820(738-902)	1355	2700
34S550	550	745	1050	40000	50000	2.1	910(819-1001)	1500	2100
34S625	625	825	1120	40000	50000	2.1	1000(900-1100)	1650	1700
34S680	680	895	1250	40000	50000	2.1	1100(990-1210)	1815	1520
34S750	750	990	1340	40000	50000	2.1	1200(1080-1320)	1980	1400
34S880	880	1140	1400	40000	50000	2.1	1400(1260-1540)	2310	1200
34S900	900	1215	1400	40000	50000	2.1	1500(1350-1650)	2475	1150
34S1000	1000	1280	1500	40000	50000	2.1	1600(1400-1760)	2640	1100
34S1100	1100	1465	1600	40000	50000	2.1	1800(1620-1980)	2970	1000

電氣特性 Electrical Characteristics

產品型號 Part No.	T Max.	H max	H1 min	D max	D1(±1.0)	d(±0.1)	d1(±0.3)	K(max.)	Φ(M±0.2)	W(±0.5)
34S130	6.2	56.6	14.5	44	25.4	0.5	3.4	3.18	3.8	7
34S140	6.3	56.6	14.5	44	25.4	0.5	3.4	3.18	3.8	7
34S150	6.4	56.6	14.5	44	25.4	0.5	3.4	3.18	3.8	7
34S170	6.6	56.6	14.5	44	25.4	0.5	3.4	3.18	3.8	7
34S190	6.8	56.6	14.5	44	25.4	0.5	3.4	3.18	3.8	7
34S210	6.9	56.6	14.5	44	25.4	0.5	3.4	3.18	3.8	7
34S230	7.1	56.6	14.5	44	25.4	0.5	3.4	3.18	3.8	7
34S250	7.3	56.6	14.5	44	25.4	0.5	3.4	3.18	3.8	7
34S275	7.5	56.6	14.5	44	25.4	0.5	3.4	3.18	3.8	7
34S300	7.8	56.6	14.5	44	25.4	0.5	3.4	3.18	3.8	7
34S320	8	56.6	14.5	44	25.4	0.5	3.4	3.18	3.8	7
34S350	8.3	56.6	14.5	44	25.4	0.5	3.4	3.18	3.8	7
34S385	8.7	56.6	14.5	44	25.4	0.5	3.4	3.18	3.8	7
34S420	9	56.6	14.5	44	25.4	0.5	3.4	3.18	3.8	7
34S460	9.4	56.6	14.5	44	25.4	0.5	3.4	3.18	3.8	7
34S485	9.6	56.6	14.5	44	25.4	0.5	3.4	3.18	3.8	7
34S510	9.8	56.6	14.5	44	25.4	0.5	3.4	3.18	3.8	7
34S550	10.4	56.6	14.5	44	25.4	0.5	3.4	3.18	3.8	7
34S625	11.2	56.6	14.5	44	25.4	0.5	3.4	3.18	3.8	7
34S680	11.8	56.6	14.5	44	25.4	0.5	3.4	3.18	3.8	7
34S750	12.3	56.6	14.5	44	25.4	0.5	3.4	3.18	3.8	7
34S880	8.5	56.6	14.5	44	25.4	0.5	3.4	3.18	3.8	7
34S900	9.0	56.6	14.5	44	25.4	0.5	3.4	3.18	3.8	7
34S1000	9.5	56.6	14.5	44	25.4	0.5	3.4	3.18	3.8	7
34S1100	10.5	56.6	14.5	44	25.4	0.5	3.4	3.18	3.8	7

● 尺寸 Dimensions(mm)



注:篇幅有限,B/C/D型導線在此不作詳述,欲了解請與我們聯繫

Note: As space is limited, the detailed B/C/D type won't be described here, Contact us for further information.

注:導電電極形狀可按客戶要求生產

Note: The shape of conductive electrode can be customized.