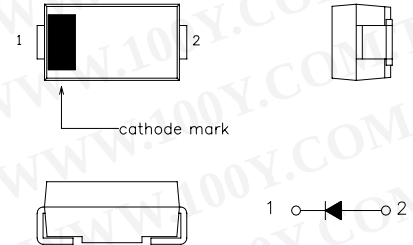


FRD Type : EC8FS6

FEATURES

- * Miniature Size, Surface Mount Device
- * Ultra-Fast Recovery
- * Low Forward Voltage Drop
- * Low Power Loss, High Efficiency
- * High Surge Capability
- * Packaged in 12mm Tape and Reel
- * Not Rolling During Assembly

OUTLINE DRAWING



Maximum Ratings

Approx Net Weight: 0.06g

Rating	Symbol	EC8FS6			Unit
Repetitive Peak Reverse Voltage	V _{RRM}	600			V
Average Rectified Output Current	I _O	0.65	Ta=25°C *1	50Hz Half Sine	A
		0.8	Ta=35°C *2	Wave Resistive Load	
RMS Forward Current	I _{F(RMS)}	1.256			A
Surge Forward Current	I _{FSM}	20	50Hz Half Sine Wave,1cycle Non-repetitive		A
Operating JunctionTemperature Range	T _{jw}	-40 to +150			°C
Storage Temperature Range	T _{stg}	-40 to +150			°C

Electrical • Thermal Characteristics

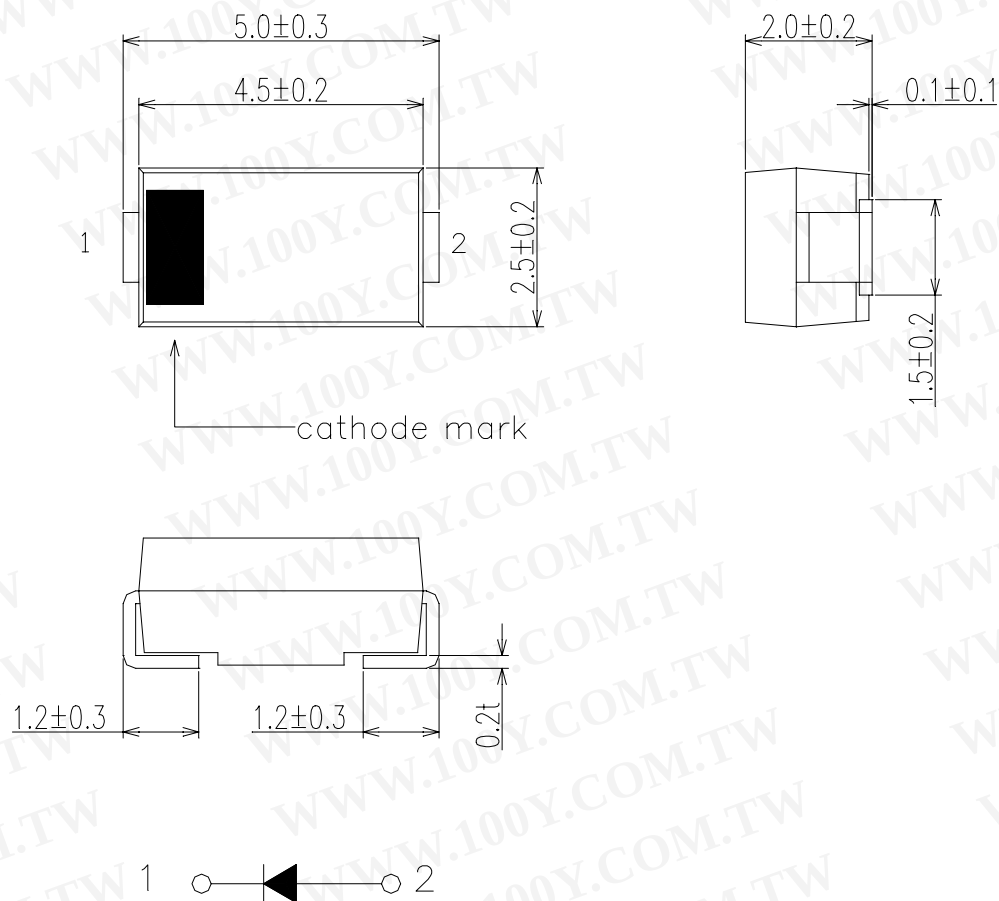
Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	$T_j = 25^{\circ}\text{C}$, $V_{RM} = V_{RRM}$	-	-	20	μA
Peak Forward Voltage	V_{FM}	$T_j = 25^{\circ}\text{C}$, $I_{FM} = 0.8\text{A}$	-	-	1.32	V
Reverse Recovery Time	t_{rr}	$I_{FM} = 1\text{A}$, $-di/dt = 50\text{A}/\mu\text{s}$, $T_a = 25^{\circ}\text{C}$	-	-	80	ns
		$I_F = I_R = 10\text{mA}$, $T_a = 25^{\circ}\text{C}$			0.4	μs
Thermal Resistance	$R_{th(j-a)}$	Junction to Ambient	*1	-	157	$^{\circ}\text{C}/\text{W}$
			*2	-	108	

*1 Glass Epoxy Substrate Mounted (Soldering Lands=2x2mm, Both Sides)

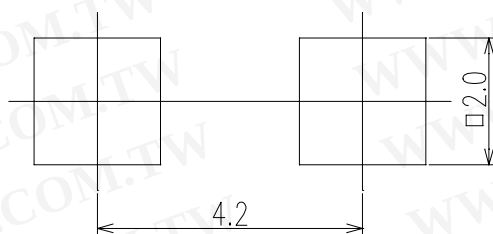
*2 Alumina Substrate Mounted (Soldering Lands=2x2mm, Both Sides)

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

EC_FS_ OUTLINE DRAWING (Dimensions in mm)

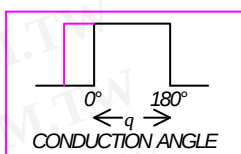
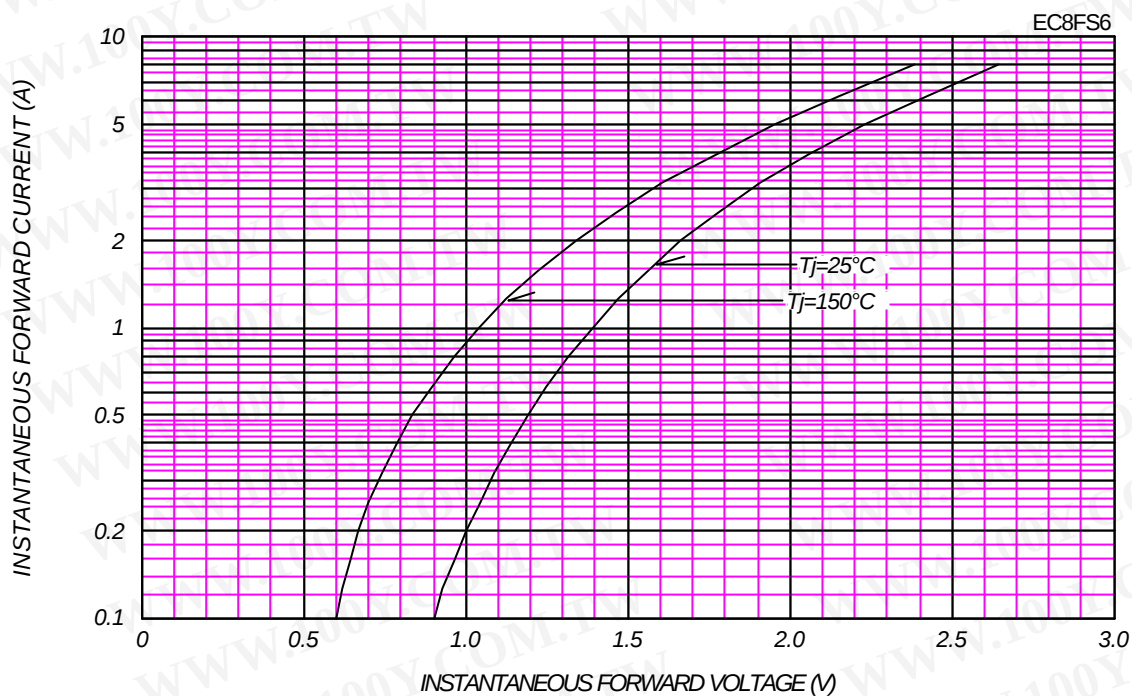


SOLDERING PAD

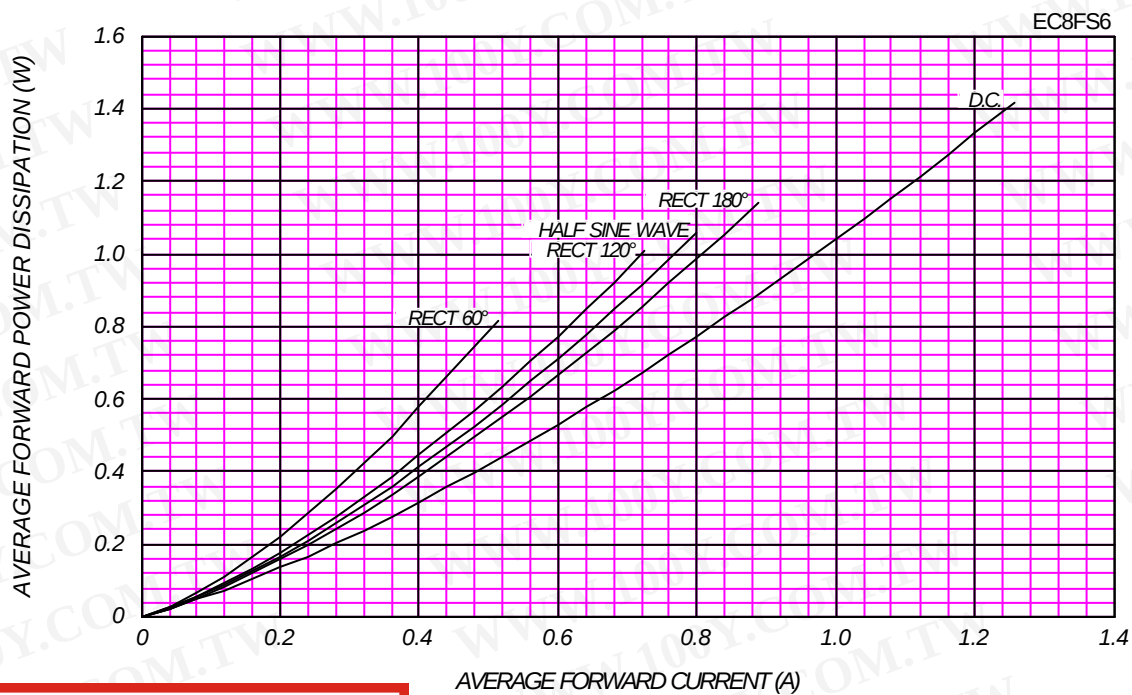


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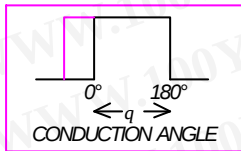
FORWARD CURRENT VS. VOLTAGE



AVERAGE FORWARD POWER DISSIPATION

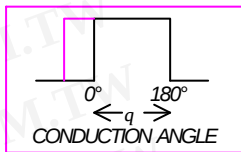
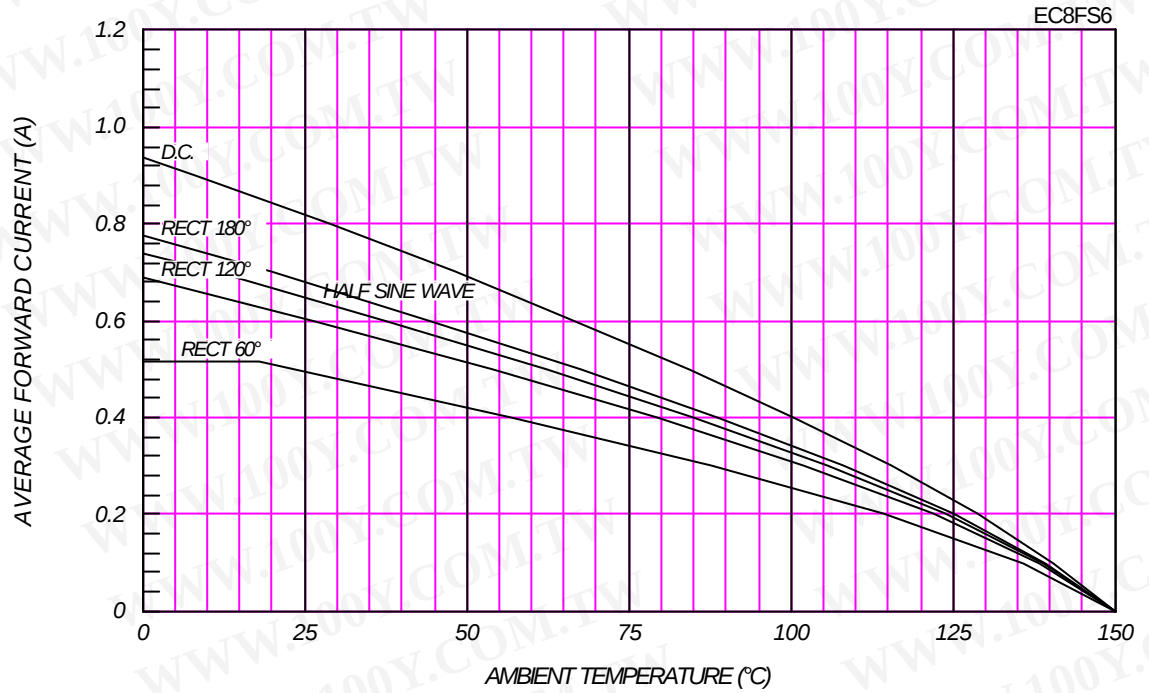


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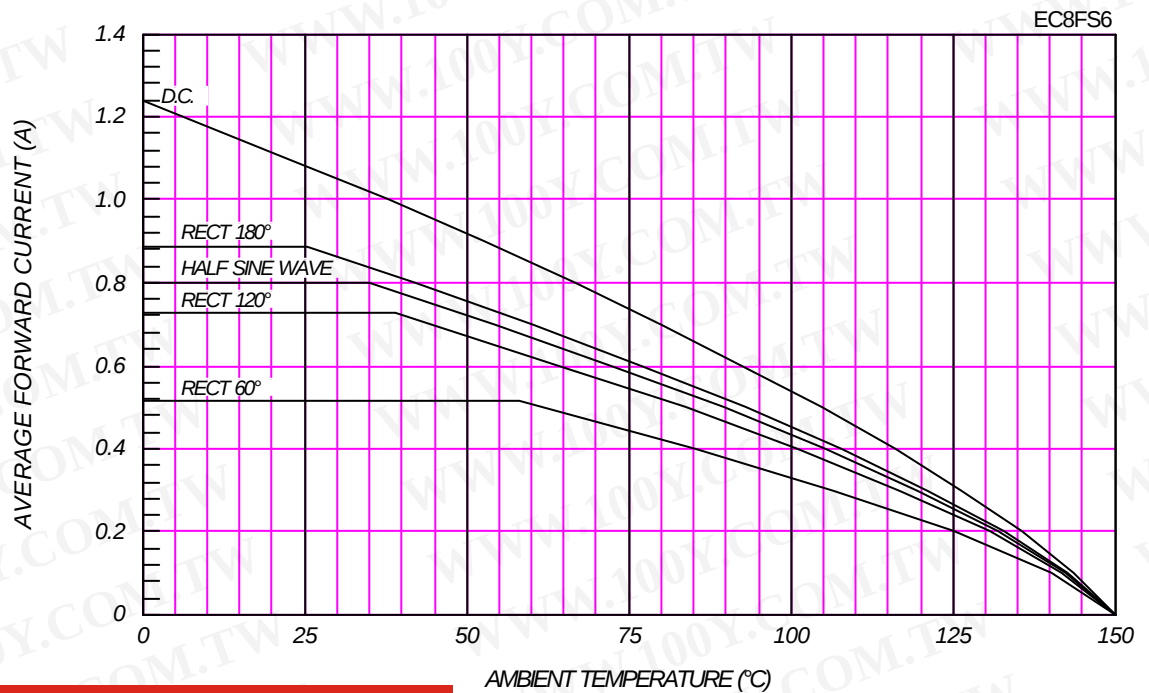
AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

Glass-Epoxy Substrate Mounted(Soldering Land=2×2mm)



AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

Alumina Substrate Mounted(Soldering Land=2×2mm)

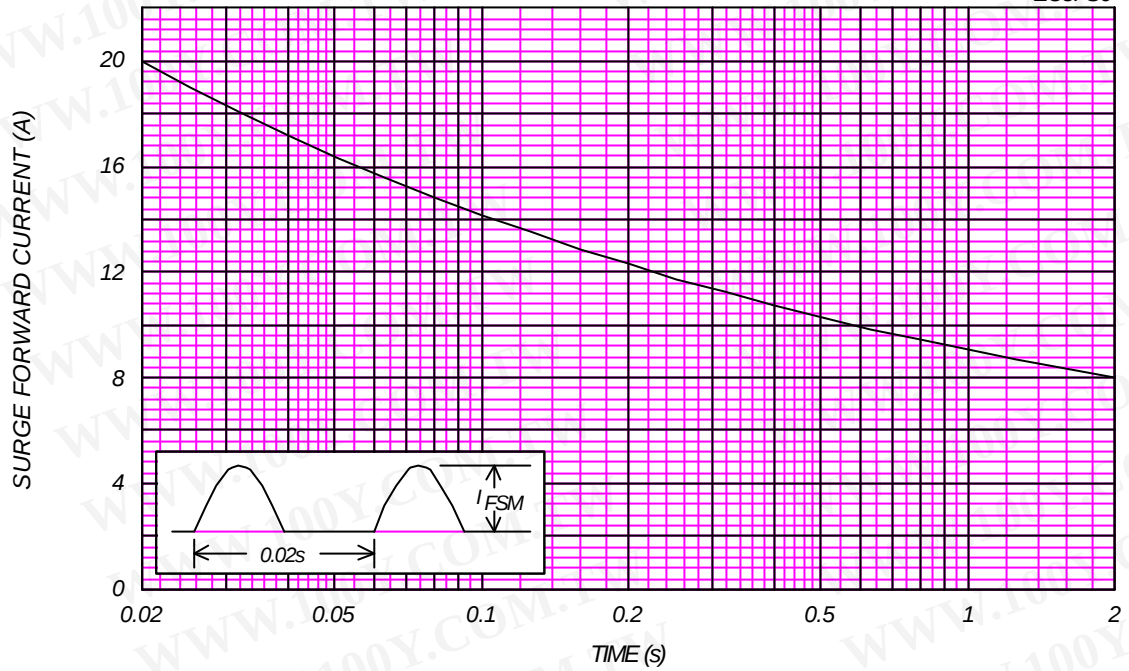


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SURGE CURRENT RATINGS

f=50Hz, Half Sine Wave, Non-repetitive, No Load

EC8FS6



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