

DIODE MODULE 150A/1200V/1600V PT150S12 PT150S16

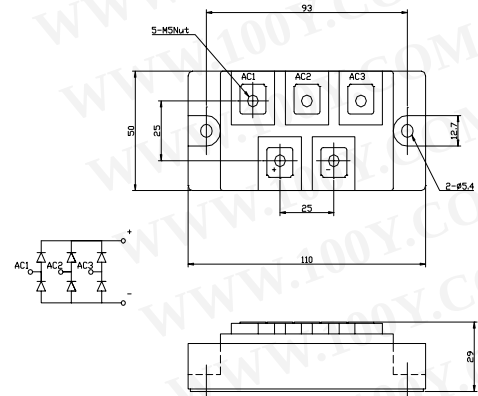
FEATURES

- * Isolated Base
- * 3 Phase Bridge Circuit
- * Designed Power Circuit Board
- * High Surge Capability
- * UL Recognized, File No. E187184

TYPICAL APPLICATIONS

- * Rectified For General Use

OUTLINE DRAWING



Maximum Ratings

Approx Net Weight:370g

Parameter	Symbol	Type / Grade		Unit
		PT150S12	PT150S16	
Repetitive Peak Reverse Voltage *1	V_{RRM}	1200	1600	V
Non Repetitive Peak Reverse Voltage *1	V_{RSM}	1300	1750	

Parameter		Conditions		Max Rated Value	Unit
Average Rectified Output Current		3-Phase Full Wave Rectified $T_c = T_t(\text{Terminal}) = 70^\circ\text{C}$		150	A
Surge Forward Current *1		50 Hz Half Sine Wave, 1 Pulse Non-repetitive		1100	A
I Squared t *1		I^2t 2msec to 10msec		6000	A^2s
Operating Junction Temperature Range		T_{jw}		-40 to +125	$^\circ\text{C}$
Storage Temperature Range		T_{stg}		-40 to +125	$^\circ\text{C}$
Isolation Voltage		Base Plate to Terminals, AC1min		2500	V
Mounting torque	Case mounting	Ftor	Greased	2.4 to 2.8	N.m
	Terminals		M5 Screw		
		M5		2.4 to 2.8	

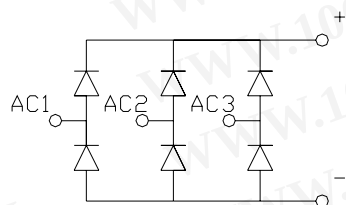
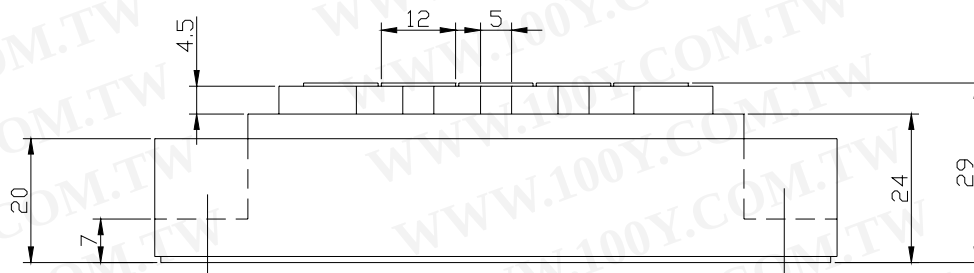
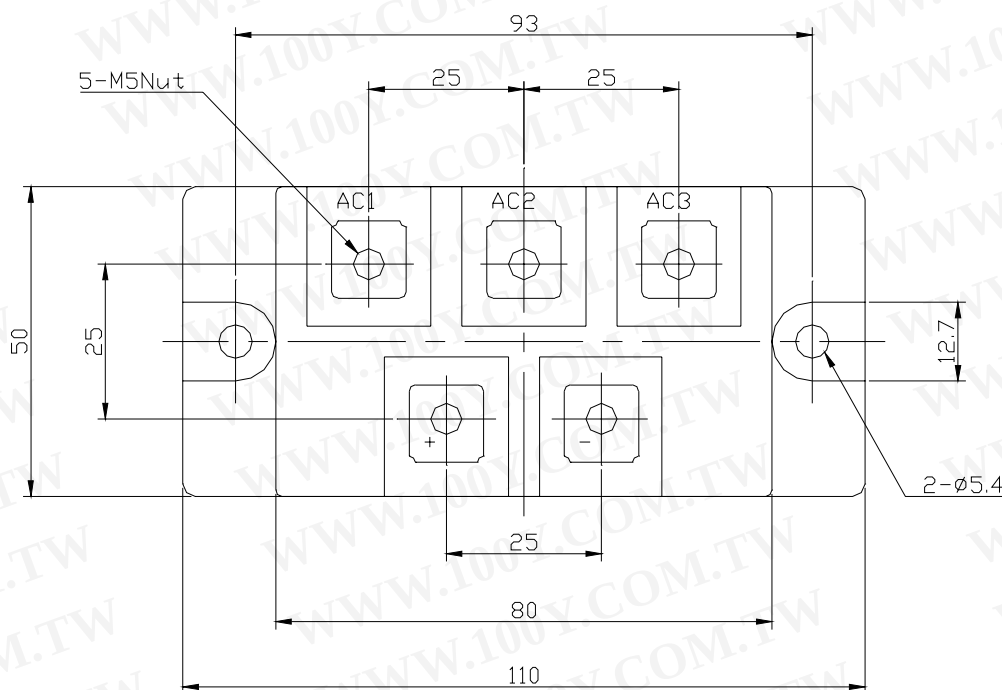
Electrical • Thermal Characteristics

Characteristics	Symbol	Test Conditions	Max.	Unit
Peak Reverse Current *1	I_{RM}	$V_{RM} = V_{RRM}$, $T_j = 125^\circ\text{C}$	10	mA
Peak Forward Voltage *1	V_{FM}	$I_{FM} = 150\text{A}$, $T_j = 25^\circ\text{C}$	1.35	V
Thermal Resistance	$R_{th(j-c)}$	Junction to Case (Total)	0.14	$^\circ\text{C/W}$
	$R_{th(c-f)}$	Base Plate to Heat Sink with Thermal Compound (Total)	0.06	

*1: Value Per 1Arm

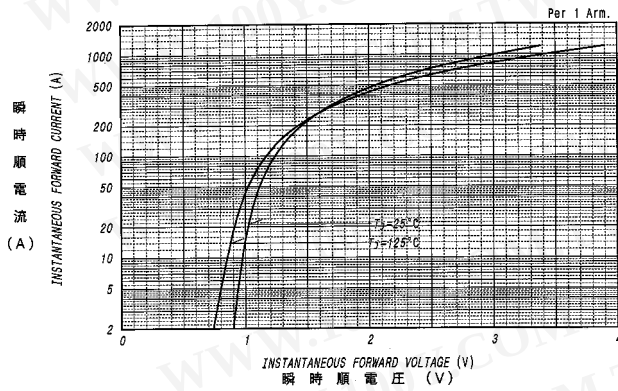
勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

PT150Sxx OUTLINE DRAWING (Dimensions in mm)

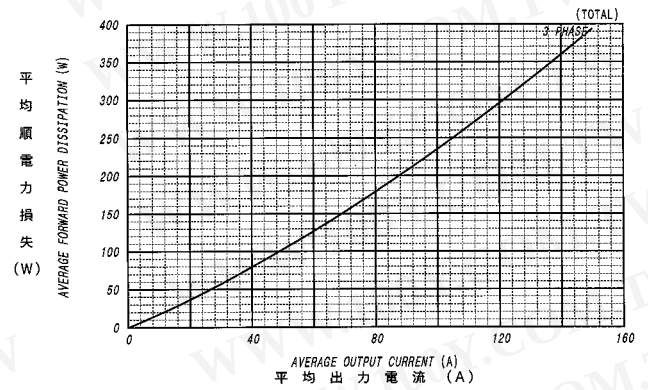


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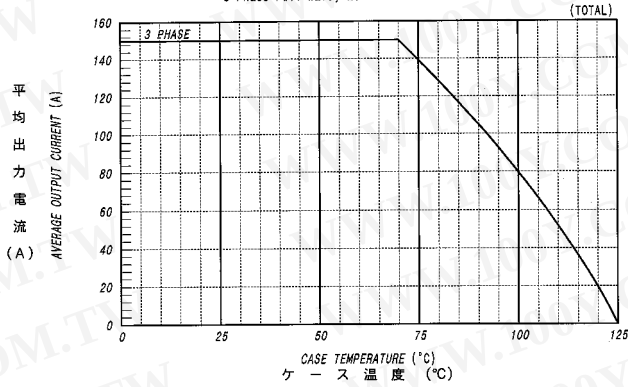
順電圧特性
FORWARD CURRENT VS. VOLTAGE



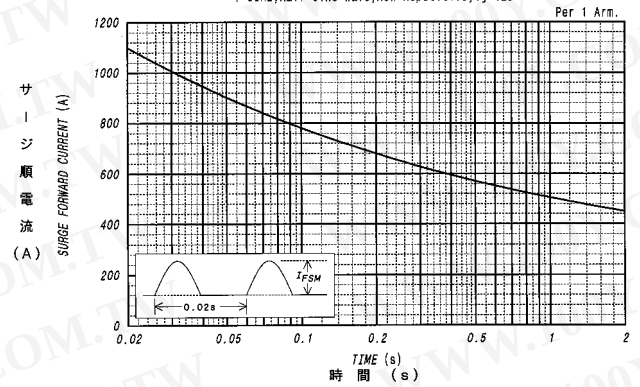
平均順電力損失特性
AVERAGE FORWARD POWER DISSIPATION



平均出力電流 - ケース温度定格
AVERAGE OUTPUT CURRENT VS. CASE TEMPERATURE
3-Phase Full Wave, Resistive or Inductive Load



サージ順電流定格
SURGE CURRENT RATINGS
 $f=50\text{Hz}$, Half Sine Wave, Non-Repetitive, $T_j=125^\circ\text{C}$



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