

DIODE MODULE 30A/800V/1000V

PT308 PT3010

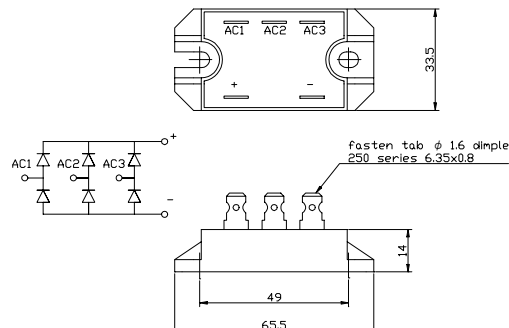
FEATURES

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

TYPICAL APPLICATIONS

- * Rectified For General Use

OUTLINE DRAWING



Maximum Ratings

Approx Net Weight:70g

Parameter	Symbol	Type / Grade		Unit
		PT308	PT3010	
Repetitive Peak Reverse Voltage *1	V_{RRM}	800	1000	V
Non Repetitive Peak Reverse Voltage *1	V_{RSM}	900	1100	

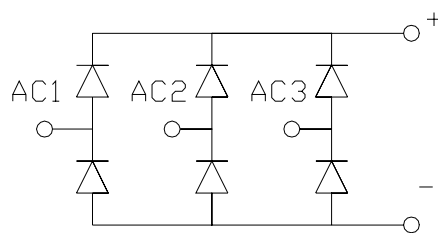
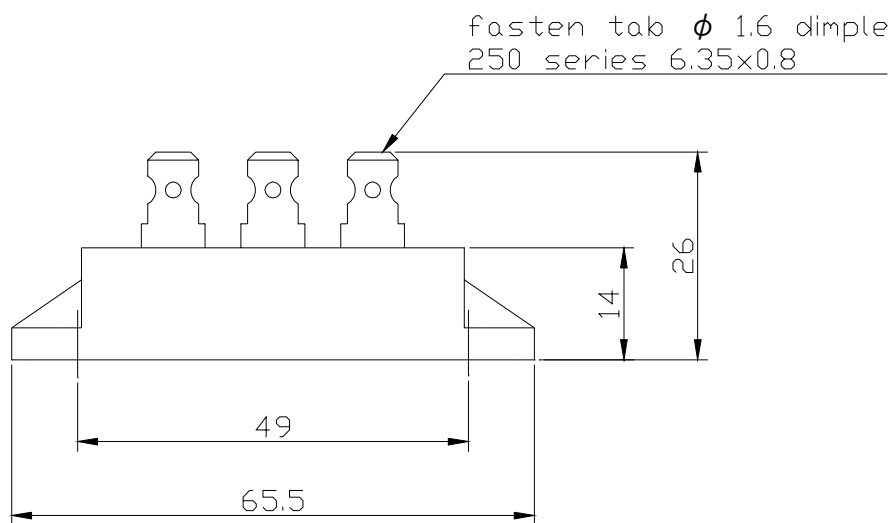
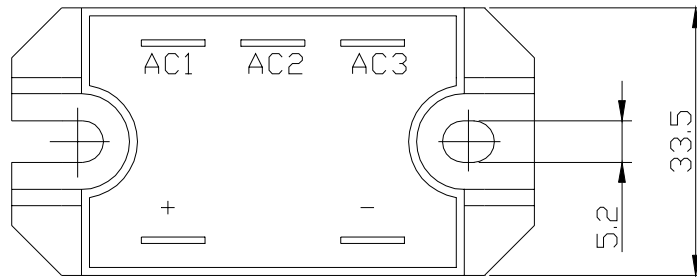
Parameter		Conditions	Max Rated Value	Unit
Average Rectified Output Current	$I_{O(AV)}$	3-Phase Full Wave Rectified $T_c=60^{\circ}\text{C}$	30	A
Surge Forward Current *1	I_{FSM}	50 Hz Half Sine Wave, 1Pulse Non-repetitive	400	A
I Squared t *1	I^2t	2msec to 10msec	800	A ² s
Operating Junction Temperature Range	T_{jw}		-40 to +150	$^{\circ}\text{C}$
Storage Temperature Range	T_{stg}		-40 to +125	$^{\circ}\text{C}$
Isolation Voltage	Viso	Base Plate to Terminals, AC1min	2000	V
Mounting torque	Case mounting	Ftor	2.4 to 2.8	N.m
	Terminals			

Electrical • Thermal Characteristics

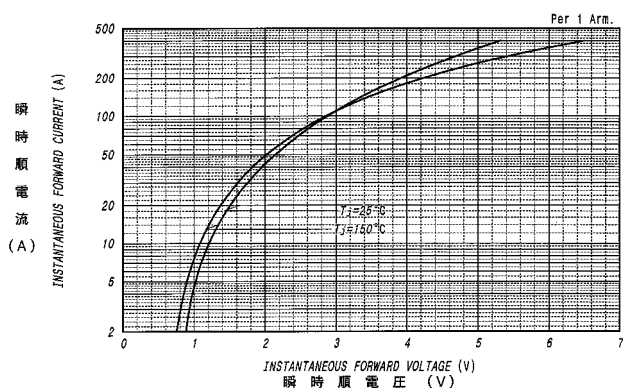
Characteristics	Symbol	Test Conditions	Max.	Unit
Peak Reverse Current *1	I_{RM}	$V_{RM}= V_{RRM}, T_j= 25^{\circ}\text{C}$	10	μA
Peak Forward Voltage *1	V_{FM}	$I_{FM}= 10\text{A}, T_j=25^{\circ}\text{C}$	1.2	V
Thermal Resistance	$R_{th(j-c)}$	Junction to Case with Thermal Compound (total)	0.92	$^{\circ}\text{C/W}$

*1: Value Per 1Arm

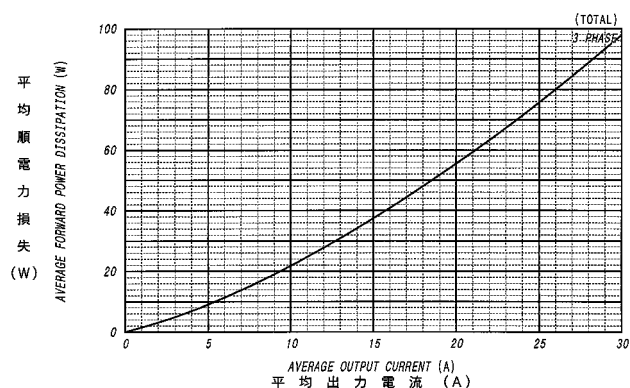
PT308/3010 OUTLINE DRAWING (Dimensions in mm)



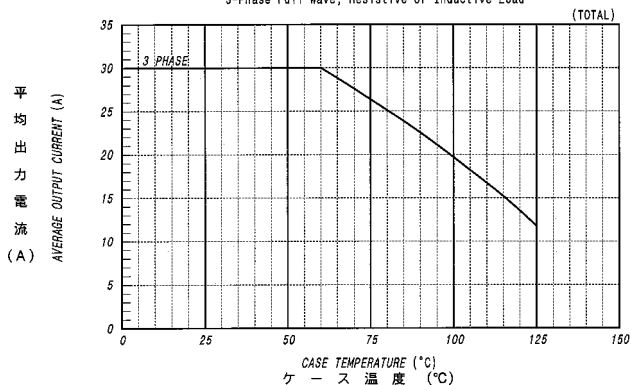
順電圧特性
FORWARD CURRENT VS. VOLTAGE



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, $T_j=25^\circ\text{C}$

