

**DIODE MODULE 30A/800V/1000V**

**PT368 PT3610**

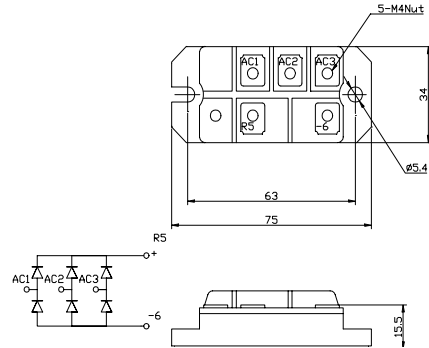
**FEATURES**

- \* 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:80g

Parameter	Symbol	Type / Grade		Unit
		PT368	PT3610	
Repetitive Peak Reverse Voltage *1	$V_{RRM}$	800	1000	V
Non Repetitive Peak Reverse Voltage *1	$V_{RSM}$	960	1100	

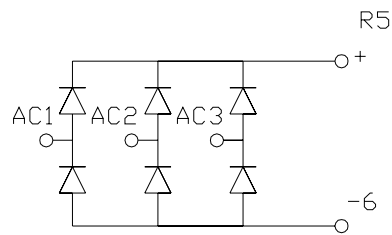
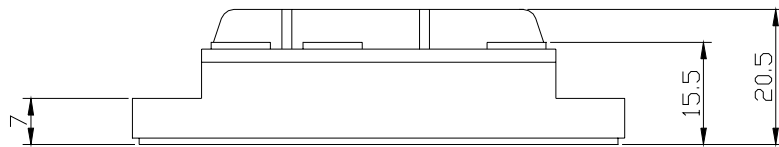
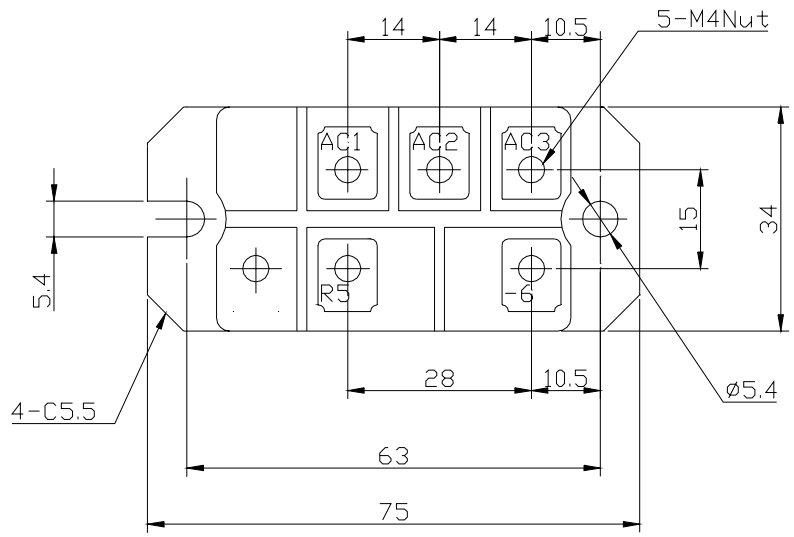
Parameter		Conditions	Max Rated Value	Unit	
Average Rectified Output Current	$I_{O(AV)}$	3-Phase Full Wave Rectified $T_c=99^\circ\text{C}$	36	A	
Surge Forward Current *1	$I_{FSM}$	50 Hz Half Sine Wave, 1Pulse Non-repetitive	400	A	
I Squared t *1	$I^2t$	2msec to 10msec	800	$\text{A}^2\text{s}$	
Operating JunctionTemperature Range	$T_{jw}$		-40 to +150	$^\circ\text{C}$	
Storage Temperature Range	$T_{stg}$		-40 to +125	$^\circ\text{C}$	
Isoration Voltage	Viso	Base Plate to Terminals, AC1min	2000	V	
Mounting torque	Case mounting	Greased	M5 Screw	2.4 to 2.8	N.m
	Terminals	M4		1.2 to 1.6	

**Electrical • Thermal Characteristics**

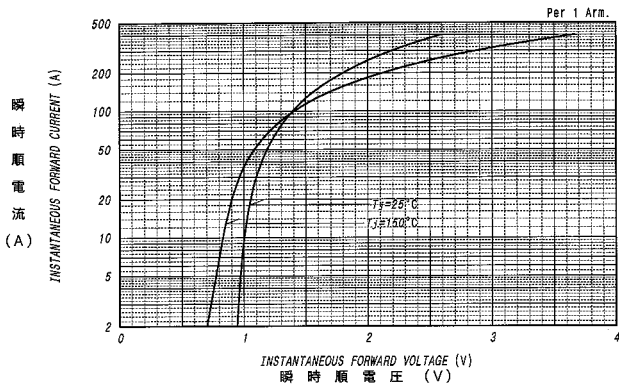
Characteristics	Symbol	Test Conditions	Max.	Unit
Peak Reverse Current *1	$I_{RM}$	$V_{RM}= V_{RRM}, T_j= 150^\circ\text{C}$	6	$\mu\text{A}$
Peak Forward Voltage *1	$V_{FM}$	$I_{FM}= 36\text{A}, T_j=25^\circ\text{C}$	1.13	V
Thermal Resistance	$R_{th(j-c)}$	Junction to Case with Thermal Compound (total)	0.7	$^\circ\text{C/W}$
	$R_{th(c-f)}$	Case to Fin Total, Greased	0.1	

\*1: Value Per 1Arm

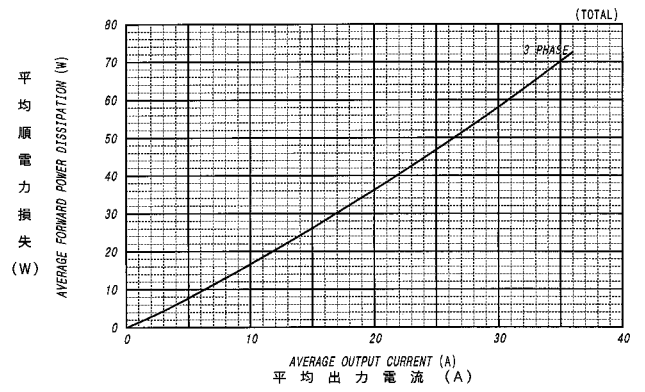
PT368/3610 OUTLINE DRAWING (Dimensions in mm)



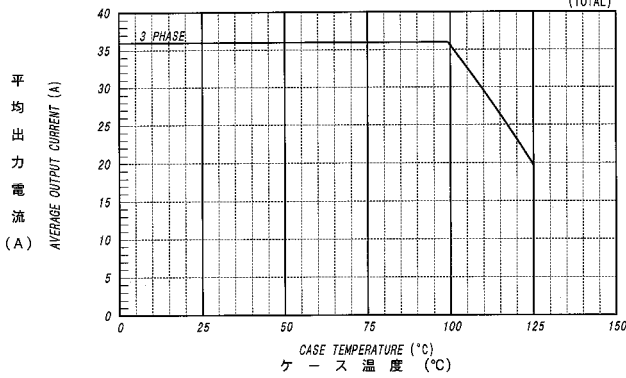
順電圧特性  
FORWARD CURRENT VS. VOLTAGE



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



サージ順電流定格  
SURGE CURRENT RATINGS

