

DIODE MODULE 100A/1200V/1600V PT10112 PT10116

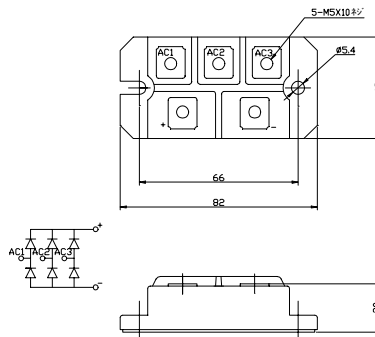
FEATURES

- * 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:180g

Parameter	Symbol	Type / Grade		Unit
		PT10112	PT10116	
Repetitive Peak Reverse Voltage *1	V_{RRM}	1200	1600	V
Non Repetitive Peak Reverse Voltage *1	V_{RSM}	1300	1700	

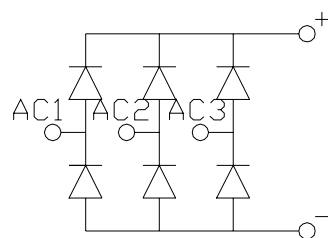
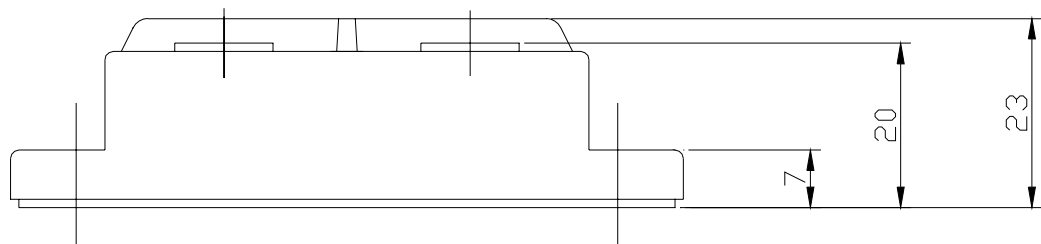
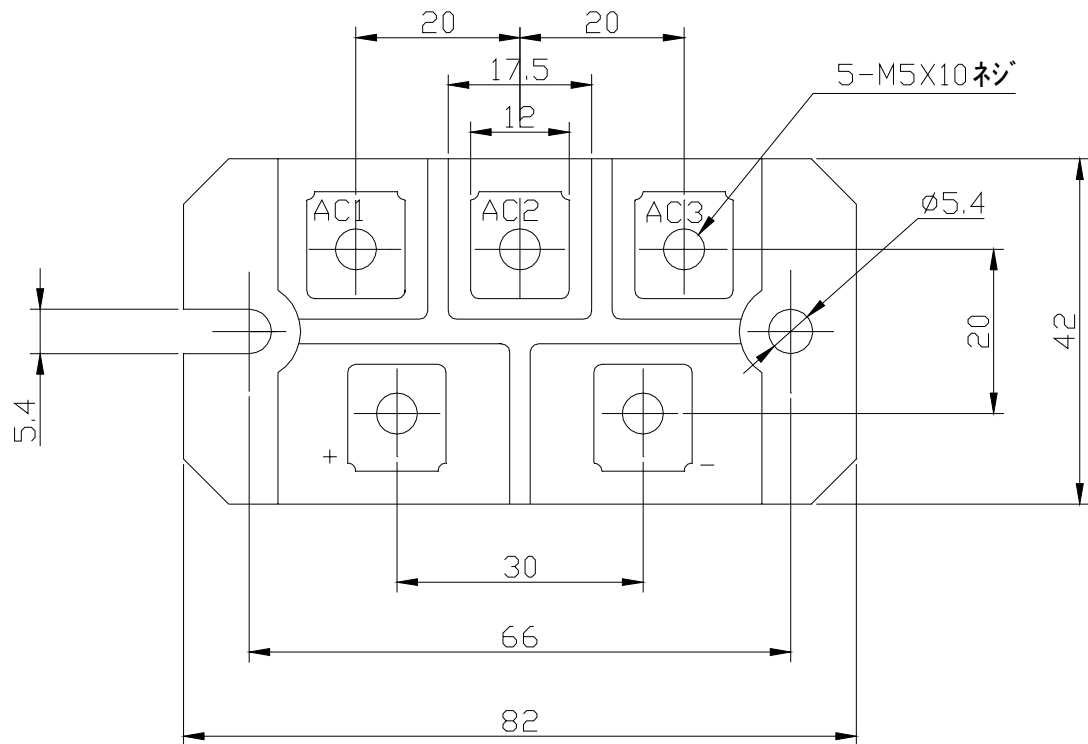
Parameter			Conditions		Max Rated Value	Unit
Average Rectified Output Current		I _{O(AV)}	3-Phase Full Wave Rectified T _C =70°C		100	A
Surge Forward Current *1		I _{FSM}	50 Hz Half Sine Wave,1Pulse Non-repetitive		1200	A
I Squared t *1		I ² t	2msec to 10msec		7200	A ² s
Operating JunctionTemperature Range		T _{jw}			-40 to +125	°C
Storage Temperature Range		T _{stg}			-40 to +125	°C
Isoration Voltage		Viso	Base Plate to Terminals, AC1min		2500	V
Mounting torque	Case mounting	F _{tor}	Greased	M5 Screw	2.4 to 2.8	N•m
	Terminals		M5		2.4 to 2.8	

Electrical • Thermal Characteristics

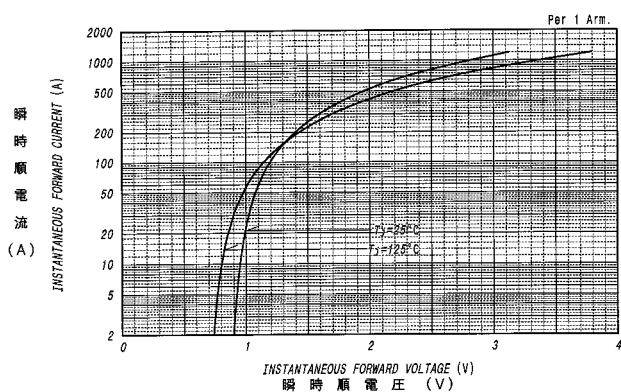
Characteristics	Symbol	Test Conditions	Max.	Unit
Peak Reverse Current *1	I_{RM}	$V_{RM}=V_{RRM}$, $T_j=125^{\circ}\text{C}$	10	mA
Peak Forward Voltage *1	V_{FM}	$I_{FM}=100\text{A}$, $T_j=25^{\circ}\text{C}$	1.2	V
Thermal Resistance	$R_{th(j-c)}$	Junction to Case (Total)	0.24	$^{\circ}\text{C/W}$
	$R_{th(c-f)}$	Base Plate to Heat Sink with Thermal Compound (Total)	0.06	

*1: Value Per 1Arm

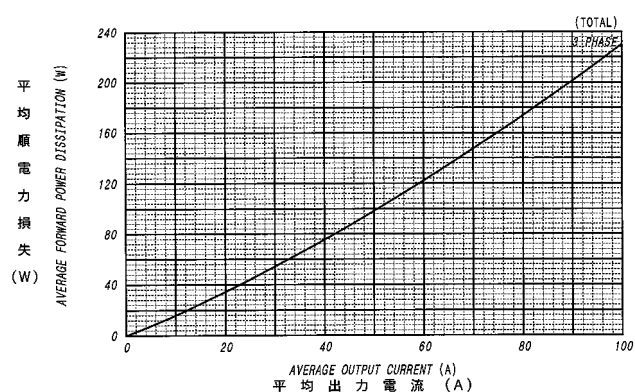
PT1011x OUTLINE DRAWING (Dimensions in mm)



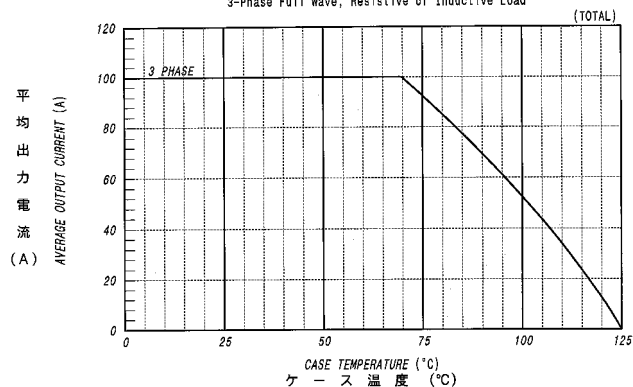
順電圧特性
FORWARD CURRENT VS. VOLTAGE



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

