Nihon Inter Electronics Corporation

DIODE MODULE 75A/1200V/1600V PT76S12 PT76S16

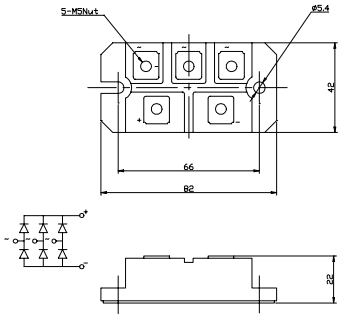
FEATURES

* 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:180g

Parameter	Symbol	Type / Grade		Unit
		P76S12	PT76S16	
Repetitive Peak Reverse Voltage *1	V_{RRM}	1200	1600	V
Non Repetitive Peak Reverse Voltage *1	V_{RSM}	1300	1750	

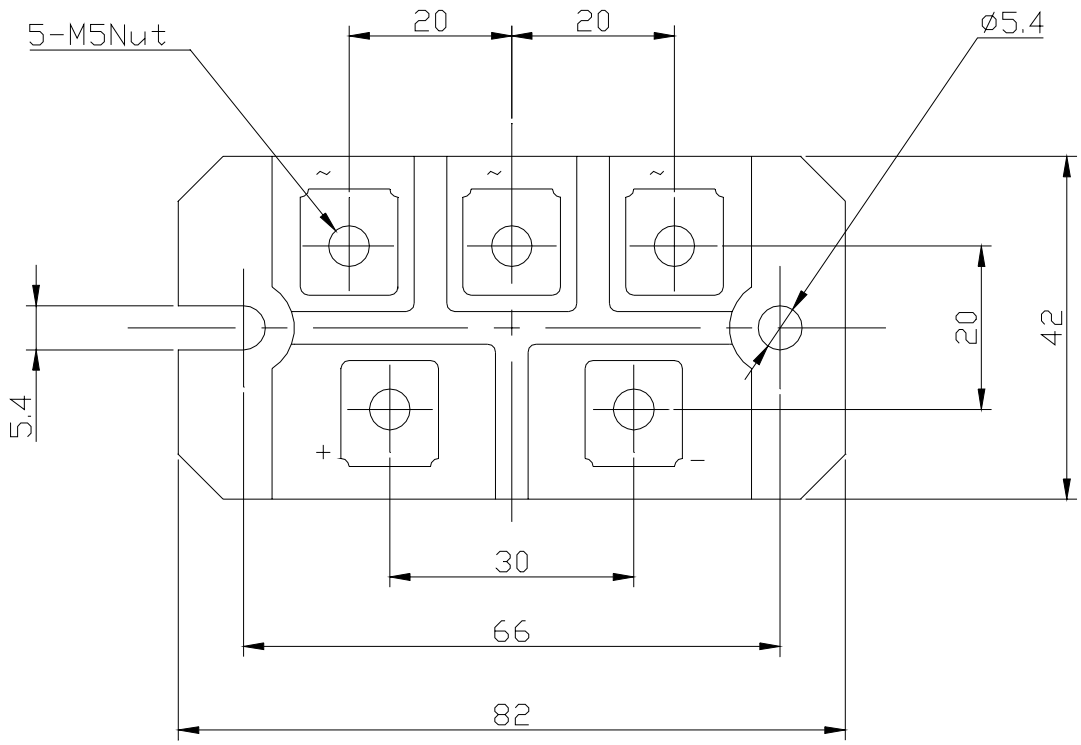
Parameter			Conditions		Max Rated Value	Unit
Average Rectified Output Current		$I_{O(AV)}$	3-Phase Full Wave Rectified Tc=Tt(Terminal)=75℃		75	A
Surge Forward Current *1		I_{FSM}	50 Hz Half Sine Wave,1Pulse Non-repetitive		540	A
I Squared t *1		I^2t	2msec to 10msec		1500	A^2s
Operating JunctionTemperature Range		Tjw			-40 to +125	℃
Storage Temperature Range		Tstg			-40 to +125	℃
Isoration Voltage		Viso	Base Plate to Terminals, AC1min		2500	V
Mounting torque	Case mounting	Ftor	Greased	M5 Screw	2.4 to 2.8	N•m
	Terminals		M5		2.4 to 2.8	

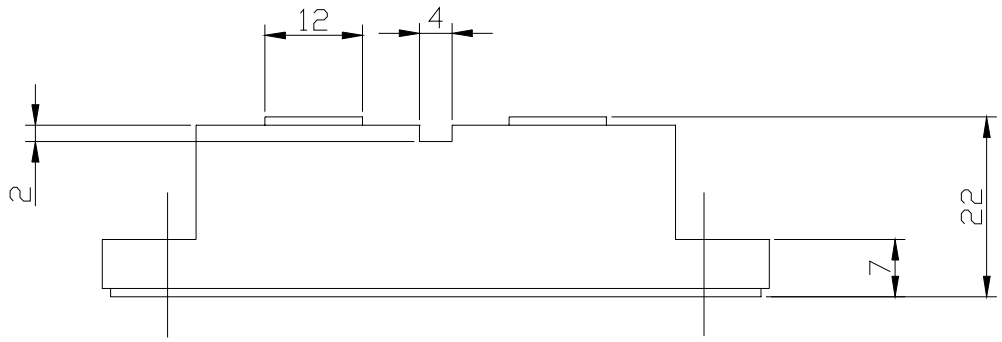
Electrical • Thermal Characteristics

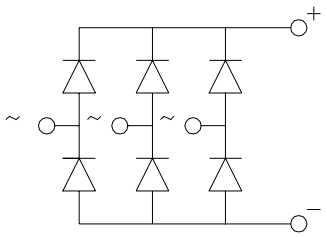
Characteristics	Symbol	Test Conditions	Max.	Unit
Peak Reverse Current *1	I_{RM}	V_{RM}= V_{RRM}, Tj= 125℃	10	mA
Peak Forward Voltage *1	V_{FM}	I_{FM}= 75A, Tj=25℃	1.4	V
Thermal Resistance	Rth(j-c)	Junction to Case (Total)	0.24	℃/W
	Rth(c-f)	Base Plate to Heat Sink with Thermal Compound (Total)	0.06	

*1: Value Per 1Arm

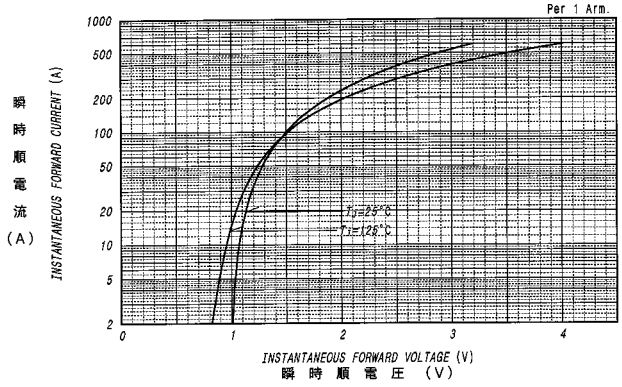
PT76S1x OUTLINE DRAWING (Dimensions in mm)



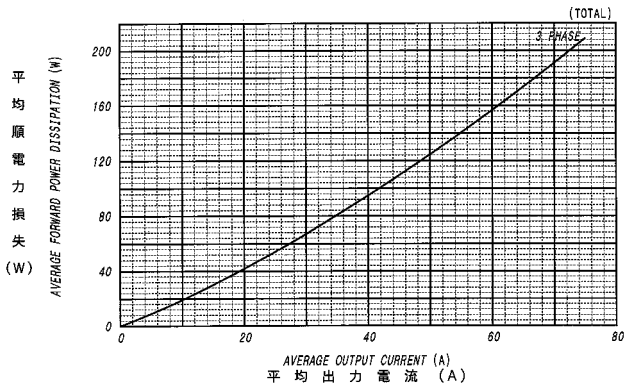




順電圧特性
FORWARD CURRENT VS. VOLTAGE

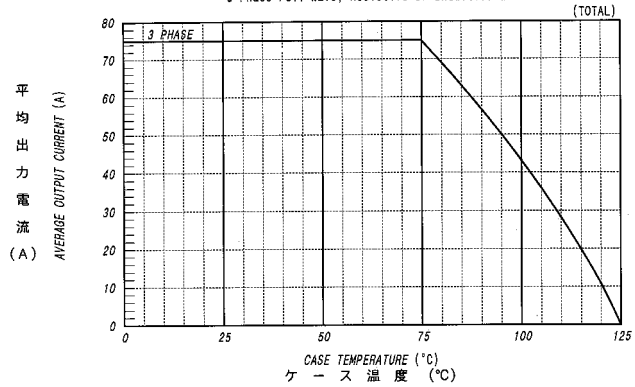


平均順電力損失特性
AVERAGE FORWARD POWER DISSIPATION



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=50Hz,Half Sine Wave,Non-Repetitive,Tj=125°C

