Nihon Inter Electronics Corporation

DIODE MODULE 100A/800V

PC1008

PD1008

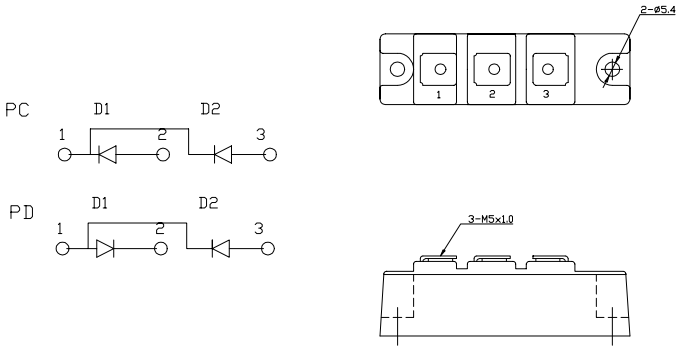
FEATURES

* Isolated Base
* Dual Diodes Cathode Common and Cascaded Circuit
* High Surge Capability
* UL Recognized, File No. E187184

TYPICAL APPLICATIONS

* Rectified For General Use

OUTLINE DRAWING



Maximum Ratings

Approx Net Weight:155g

Parameter	Symbol	Type / Grade	Unit
		PC1008 / PD1008	
Repetitive Peak Reverse Voltage *1	V_{RRM}	800	V
Non Repetitive Peak Reverse Voltage *1	V_{RSM}	960	

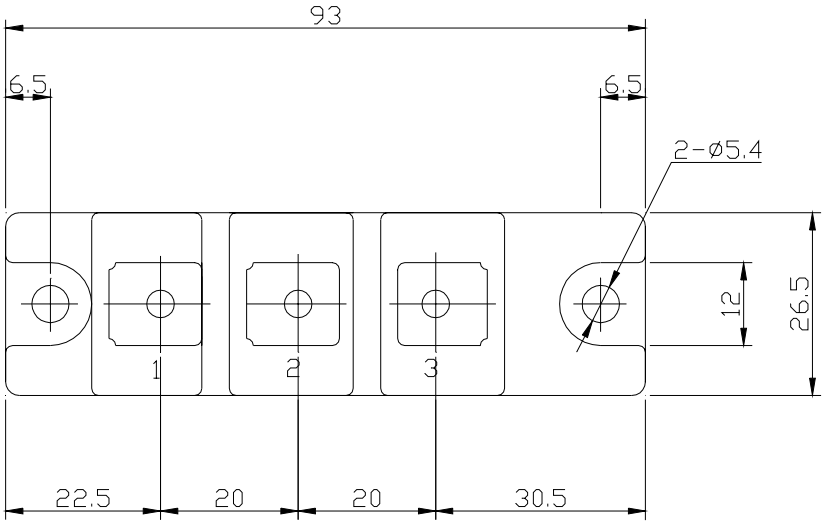
Parameter			Conditions	Max Rated Value	Unit
Average Rectified Output Current *1		$I_{O(AV)}$	50Hz Half Sine Wave condition Tc=105°C	100	A
RMS Forward Current *1		$I_{F(RMS)}$		156	A
Surge Forward Current *1		I_{FSM}	50 Hz Half Sine Wave,1Pulse Non-repetitive	2000	A
I Squared t *1		I^2t	2msec to 10msec	20000	A^2s
Operating JunctionTemperature Range		Tjw		-40 to +150	°C
Storage Temperature Range		Tstg		-40 to +125	°C
Isoration Voltage		Viso	Base Plate to Terminals, AC1min	2000	V
Mounting torque	Case mounting	Ftor	M5 Screw	2.4 to 2.8	N•m
	Terminals		M5 Screw	2.4 to 2.8	

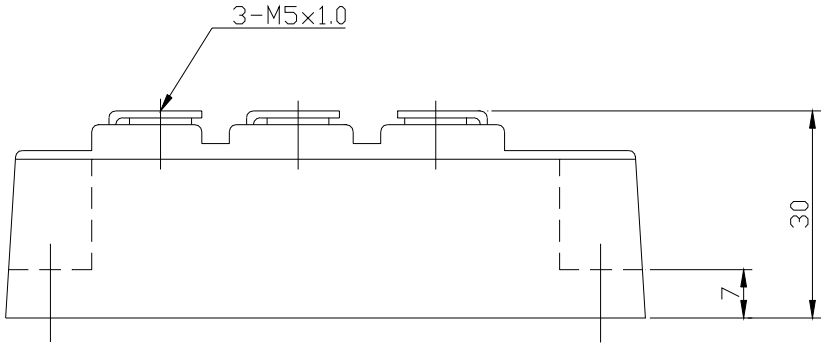
Electrical • Thermal Characteristics

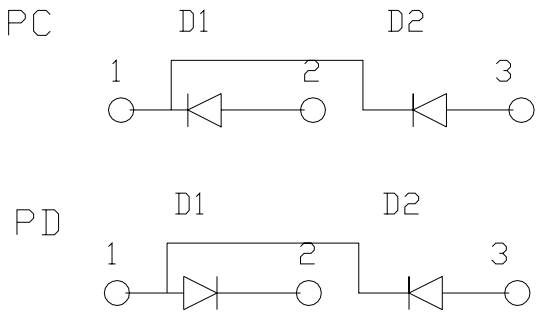
Characteristics	Symbol	Test Conditions	Max.	Unit
Peak Reverse Current *1	I_{RM}	V_{RM}= V_{RRM}, Tj= 150°C	20	mA
Peak Forward Voltage *1	V_{FM}	I_{FM}= 320A, Tj=25°C	1.25	V
Thermal Resistance *1	Rth(j-c)	Junction to Case	0.3	°C/W
	Rth(c-f)	Base Plate to Heat Sink with Thermal Compound	0.2	

*1: Value Per 1Arm

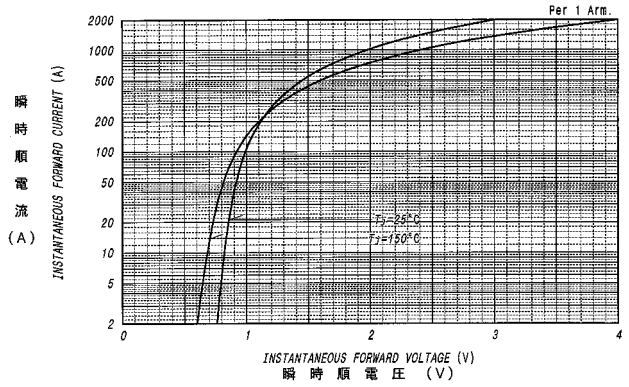
PC/PD1008 OUTLINE DRAWING (Dimensions in mm)



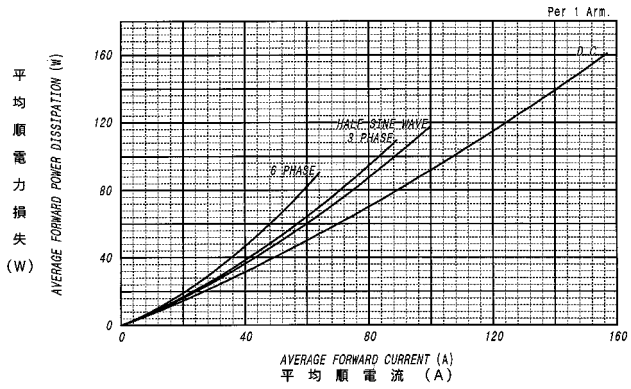




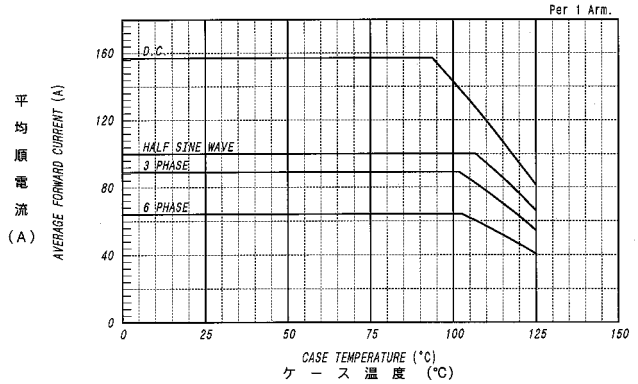
順電圧特性
FORWARD CURRENT VS. VOLTAGE



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

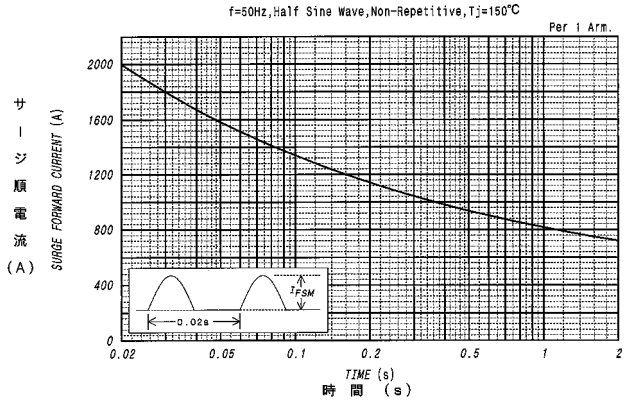


平均順電流－ケース温度定格
AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE



サージ順電流定格
SURGE CURRENT RATINGS

f=50Hz,Half Sine Wave,Non-Repetitive,Tj=150°C



過渡熱抵抗特性
MAXIMUM TRANSIENT THERMAL IMPEDANCE

Junction to Case