Nihon Inter Electronics Corporation

DIODE MODULE 200A/800V

PC2008 PD2008

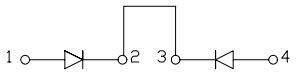
FEATURES

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

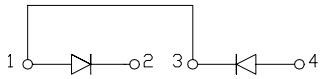
TYPICAL APPLICATIONS

* Rectified For General Use

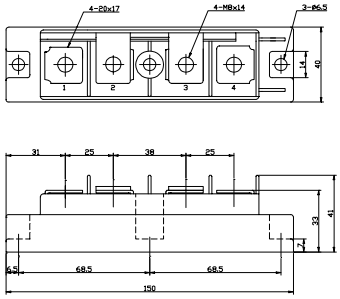
PC



PD



OUTLINE DRAWING



Maximum Ratings

Approx Net Weight:480g

Parameter	Symbol	Type / Grade	Unit
		PC2008 / PD2008	
Repetitive Peak Reverse Voltage *1	V_{RRM}	800	V
Non Repetitive Peak Reverse Voltage *1	V_{RSM}	900	

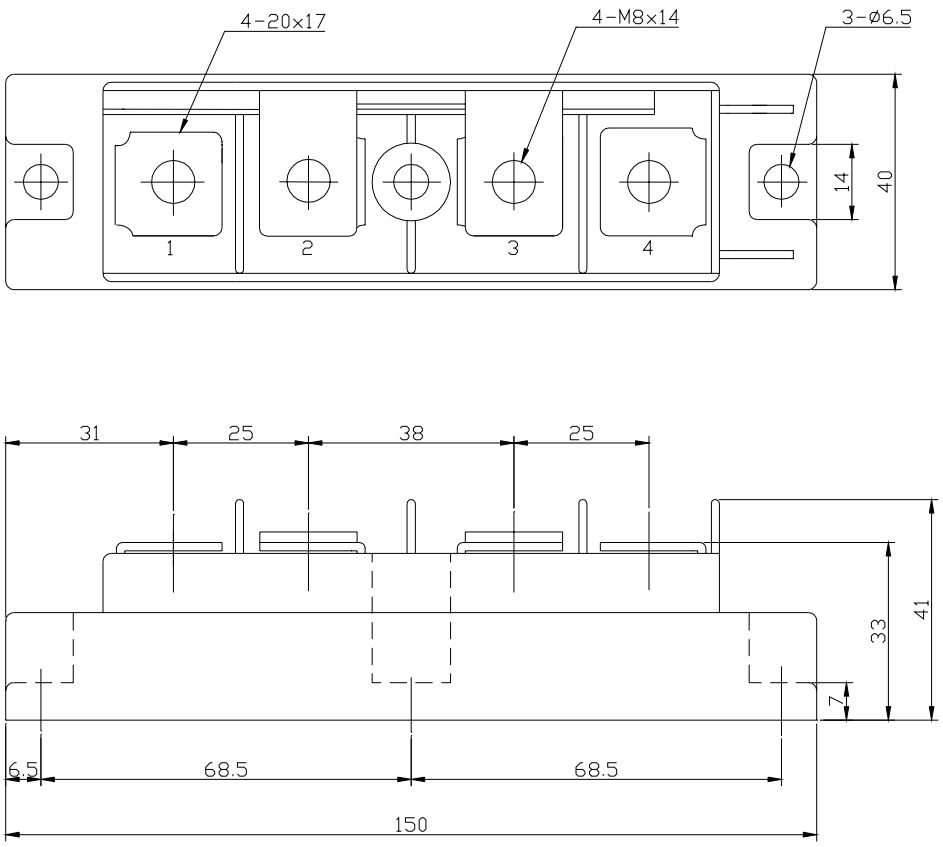
Parameter		Symbol	Conditions	Max Rated Value	Unit
Average Rectified Output Current *1		$I_{O(AV)}$	50 Hz Half Sine Wave condition Tc=94°C	200	A
RMS Forward Current *1		$I_{F(RMS)}$		314	A
Surge Forward Current *1		I_{FSM}	50 Hz Half Sine Wave, 1cycle, Non-Repetitive	4000	A
I Squared t *1		I^2t	2msec to 10msec	80000	A^2s
Operating Junction Temperature 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	M6 Screw	2.5 to 3.5	N•m
	Terminals		M8 Screw	9.0 to 10.0	

Electrical • Thermal Characteristics

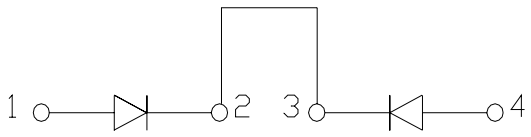
Characteristics	Symbol	Test Conditions	Max.	Unit
Peak Reverse Current *1	I_{RM}	V_{RM}= V_{RRM}, Tj= 150°C	30	mA
Peak Forward Voltage *1	V_{FM}	I_{FM}= 600A, Tj=25°C	1.24	V
Thermal Resistance *1	Rth(j-c)	Junction to Case	0.23	°C/W
	Rth(c-f)	Case to Fin, Greased	0.1	

*1: Value Per 1Arm

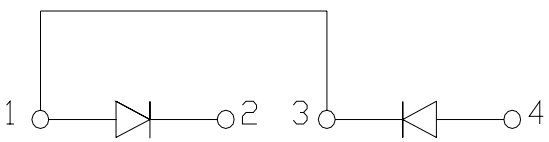
PC/PD2008 OUTLINE DRAWING (Dimensions in mm)



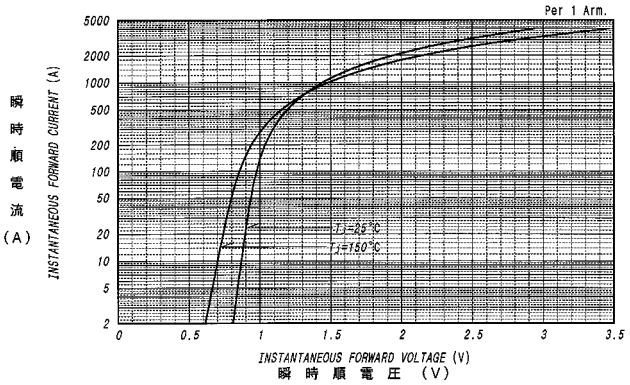
PC



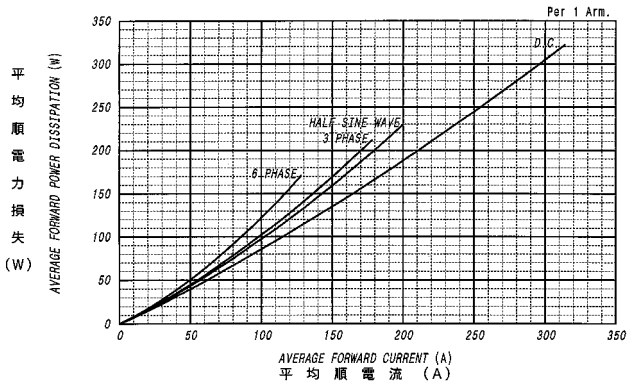
PD



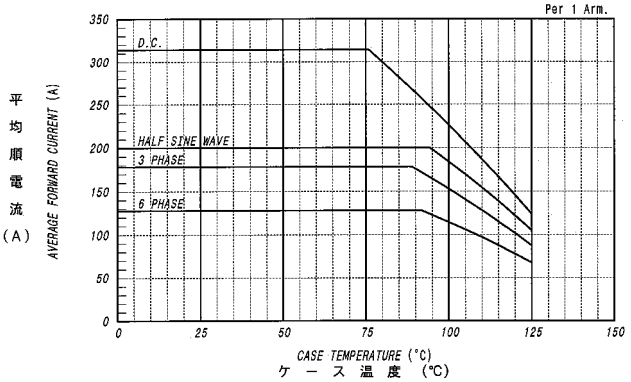
順電圧特性
FORWARD CURRENT VS. VOLTAGE



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

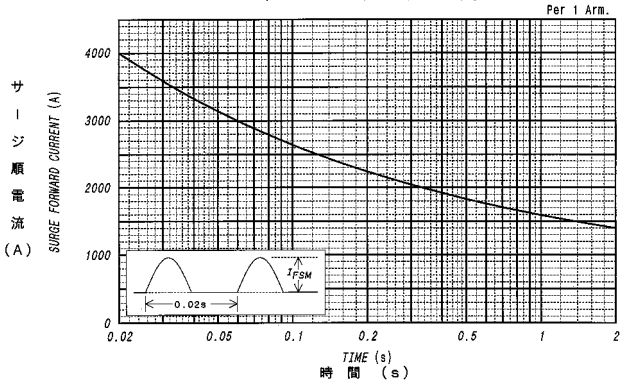


平均順電流－ケース温度定格
AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE



サージ順電流定格
SURGE CURRENT RATINGS

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



過渡熱抵抗特性
MAXIMUM TRANSIENT THERMAL IMPEDANCE

Junction to Case