Nihon Inter Electronics Corporation

DIODE MODULE 250A/1200,1600V

PC25012, PC25016
PD25012, PD25016

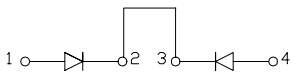
FEATURES

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

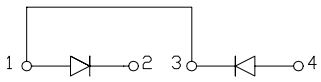
TYPICAL APPLICATIONS

* Rectified For General Use

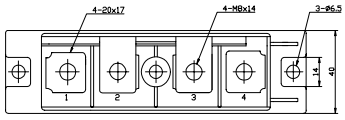
PC

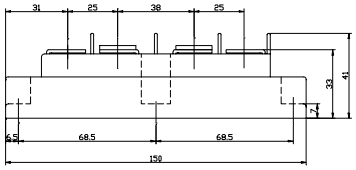


PD



OUTLINE DRAWING





Maximum Ratings

Approx Net Weight:530g

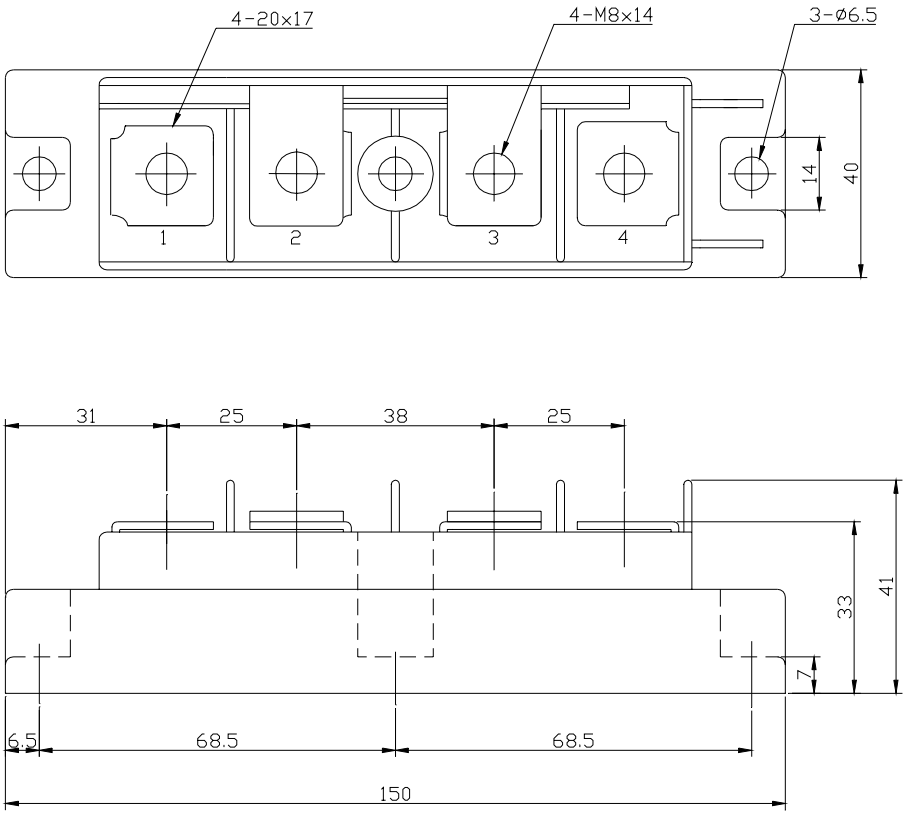
Parameter	Symbol	Type / Grade		Unit
		PC/D25012	PC/PD25016	
Repetitive Peak Reverse Voltage	V_{RRM}	1200	1600	V
Non Repetitive Peak Reverse Voltage	V_{RSM}	1300	1700	

Parameter			Conditions	Max Rated Value	Unit
Average Rectified Output Current		$I_{O(AV)}$	50Hz Half Sine Wave condition Tc=68℃	250	A
RMS Forward Current		$I_{F(RMS)}$		390	A
Surge Forward Current		I_{FSM}	50 Hz Half Sine Wave,1cycle Non-repetitive	5000	A
I Squared t		I^2t	2msec to 10msec	125000	A^2s
Operating JunctionTemperature Range		Tjw		-40 to +150	℃
Storage Temperature Range		Tstg		-40 to +125	℃
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	

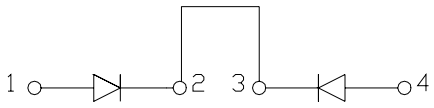
Electrical • Thermal Characteristics

Characteristics	Symbol	Test Conditions	Max.	Unit
Peak Reverse Current	I_{RM}	V_{RM}= V_{RRM}, Tj= 125℃	30	mA
Peak Forward Voltage	V_{FM}	I_{FM}= 800A, Tj=25℃	1.35	V
Thermal Resistance	Rth(j-c)	Junction to Case	0.18	℃/W
	Rth(c-f)	Base Plate to Heat Sink with Thermal Compound	0.1	

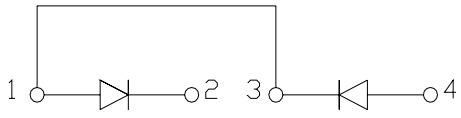
PC/D2501x OUTLINE DRAWING (Dimensions in mm)



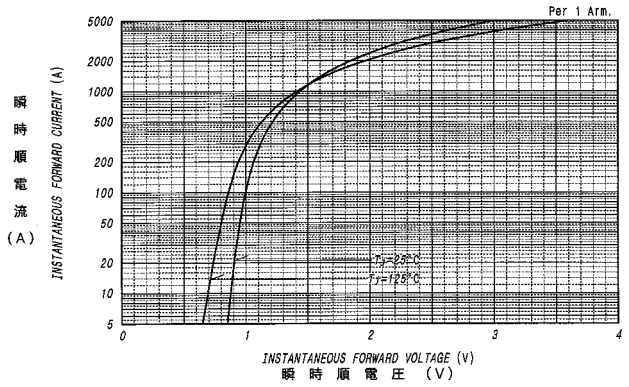
PC



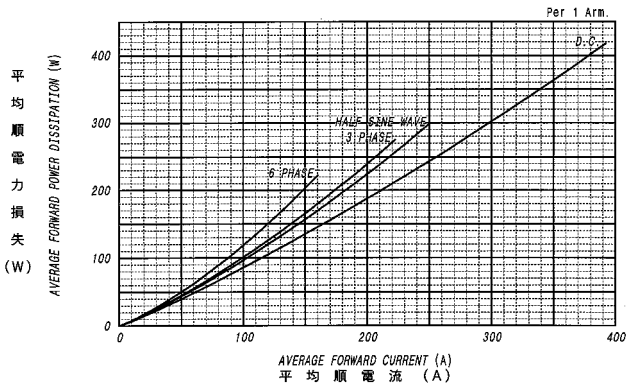
PD



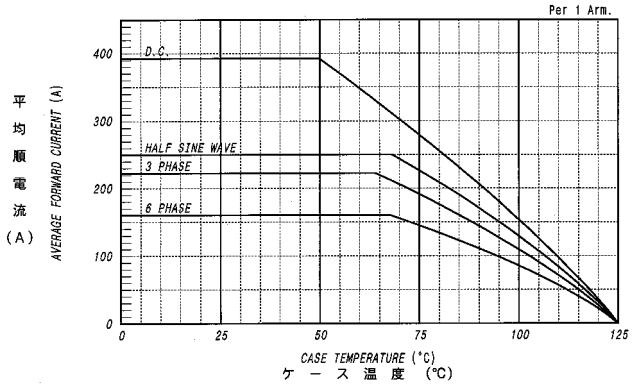
順電圧特性
FORWARD CURRENT VS. VOLTAGE



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

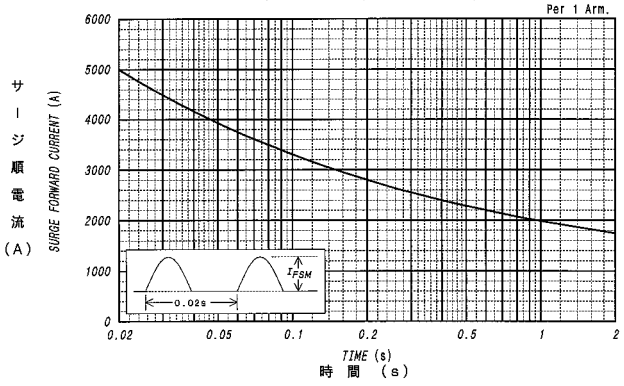


平均順電流－ケース温度定格
AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE



サージ順電流定格
SURGE CURRENT RATINGS

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



過渡熱抵抗特性
MAXIMUM TRANSIENT THERMAL IMPEDANCE

Junction to Case

