Nihon Inter Electronics Corporation

DIODE MODULE 150A/1200 to 1600V

PC15012 PC15016

PD15012 PD15016

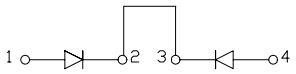
FEATURES

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

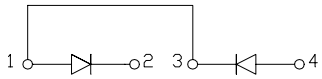
TYPICAL APPLICATIONS

* Rectified For General Use

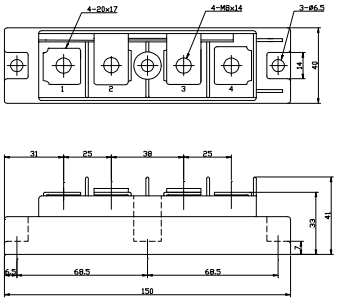
PC



PD



OUTLINE DRAWING



Maximum Ratings

Approx Net Weight:480g

Parameter	Symbol	Type / Grade		Unit
		PC15012 / PD15012	PC15016 / PD15016	
Repetitive Peak Reverse Voltage *1	V_{RRM}	1200	1600	V
Non Repetitive Peak Reverse Voltage *1	V_{RSM}	1300	1700	

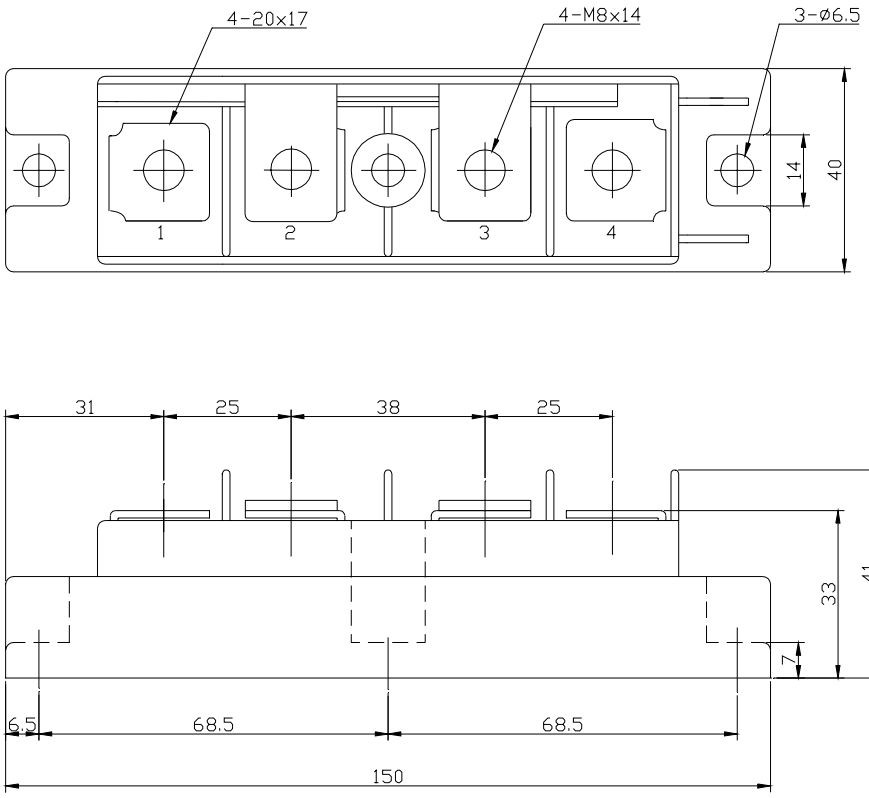
Parameter		Symbol	Conditions	Max Rated Value	Unit
Average Rectified Output Current *1		$I_{O(AV)}$	50 Hz Half Sine Wave condition Tc=79°C	150	A
RMS Forward Current *1		$I_{F(RMS)}$		235	A
Surge Forward Current *1		I_{FSM}	50 Hz Half Sine Wave, 1cycle, Non-Repetitive	3200	A
I Squared t *1		I^2t	2msec to 10msec	51200	A^2s
Operating Junction Temperature Range		Tjw		-40 to +125	°C
Storage Temperature Range		Tstg		-40 to +125	°C
Isoration Voltage		Viso	Base Plate to Terminals, AC1min	2500	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

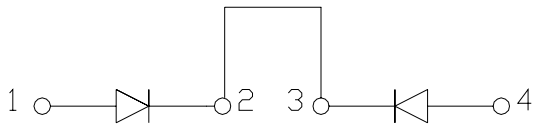
Characteristics	Symbol	Test Conditions	Max.	Unit
Peak Reverse Current *1	I_{RM}	V_{RM}= V_{RRM}, Tj= 125°C	30	mA
Peak Forward Voltage *1	V_{FM}	I_{FM}= 450A, Tj=25°C	1.28	V
Thermal Resistance *1	Rth(j-c)	Junction to Case	0.25	°C/W
	Rth(c-f)	Case to Fin, Greased	0.1	

*1: Value Per 1Arm

PC/PD15012/16 OUTLINE DRAWING (Dimensions in mm)



PC



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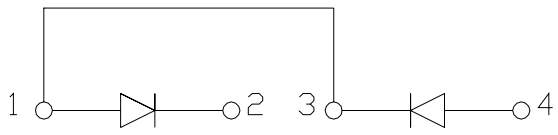

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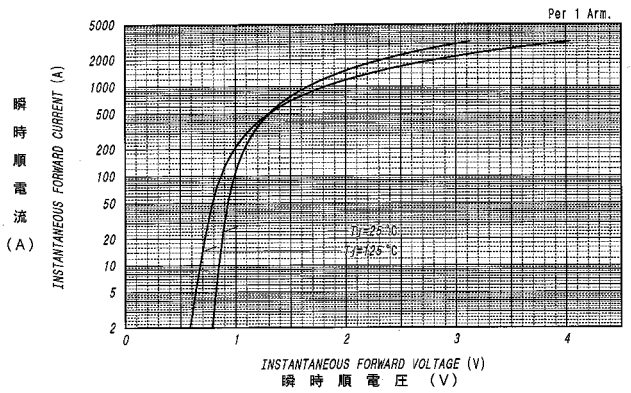
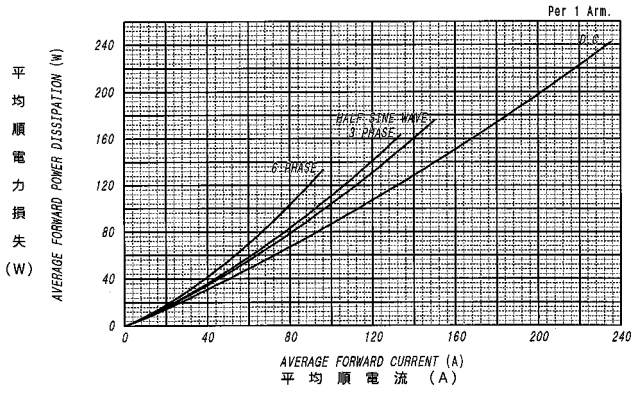
FORWARD CURRENT VS. VOLTAGE



平 均 順 電 力 損 失 特 性
AVERAGE FORWARD POWER DISSIPATION



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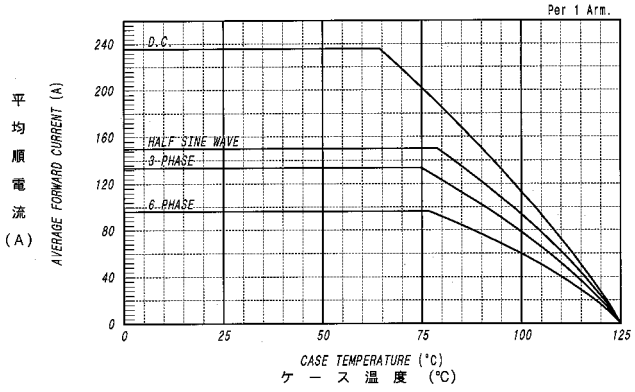
AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE



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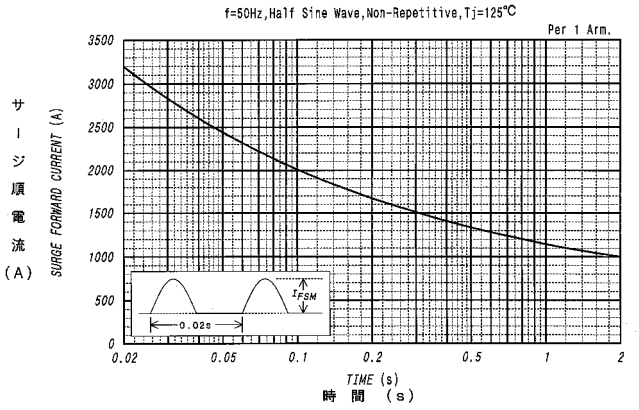
SURGE CURRENT RATINGS



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MAXIMUM TRANSIENT THERMAL IMPEDANCE