Nihon Inter Electronics Corporation

DIODE MODULE 150A/800V

PE1508N

PF1508N

FEATURES

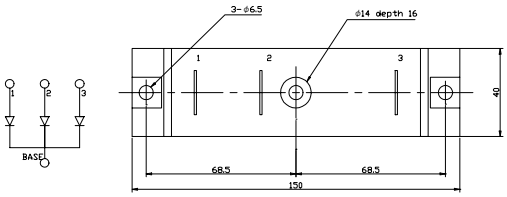
* Cathode & Anode Common
* 3 Phase Half Bridge Circuit
* High Surge Capability
* UL Recognized, File No. E187184

TYPICAL APPLICATIONS

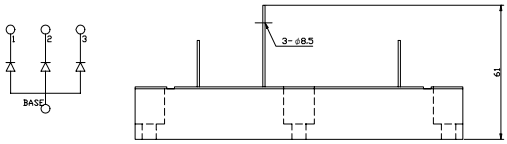
* Rectified For General Use

OUTLINE DRAWING

PE



PF



Maximum Ratings

Approx Net Weight:315g

Parameter	Symbol	Type / Grade	Unit
		PE1508 / PF1508	
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=103℃		150	A
			3 Phase Tc=99℃		132	A
Surge Forward Current *1		I_{FSM}	50 Hz Half Sine Wave,1Pulse Non-repetitive		3200	A
I Squared t *1		I^2t	2msec to 10msec		51200	A^2s
Operating JunctionTemperature Range		Tjw			-40 to +150	℃
Storage Temperature Range		Tstg			-40 to +125	℃
Mounting torque	Case mounting	Ftor	Greased	M6 Screw	2.5 to 3.5	N•m
	Terminals		M8 Screw		9.0 to 10.0	

Electrical • Thermal Characteristics

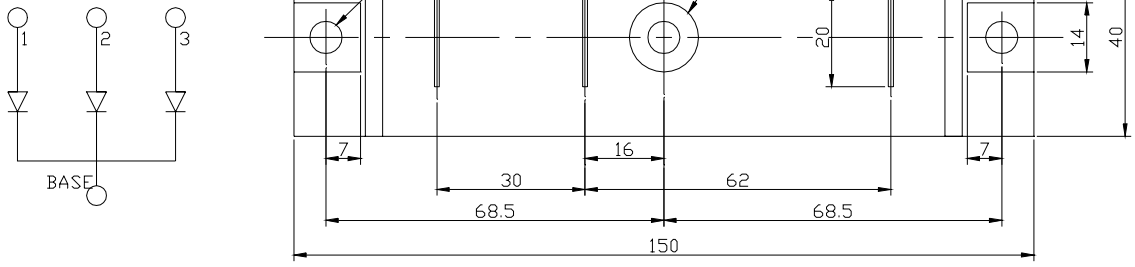
Characteristics	Symbol	Test Conditions	Max.	Unit
Peak Reverse Current *1	I_{RM}	V_{RM}= V_{RRM}, Tj= 150℃	20	mA
Peak Forward Voltage *1	V_{FM}	I_{FM}= 450A, Tj=25℃	1.28	V
Thermal Resistance *1	Rth(j-c)	Junction to Case	0.25	℃/W
	Rth(c-f)	Base Plate to Heat Sink with Joint Compound	0.1	

*1: Value Per 1Arm

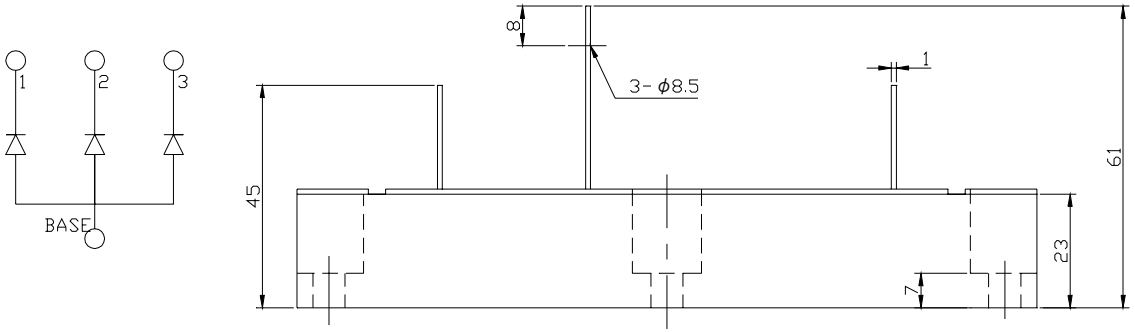
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PE/PF1508 OUTLINE DRAWING (Dimensions in mm)

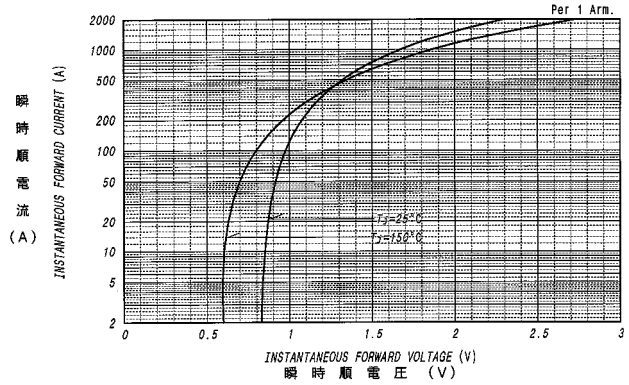
PE



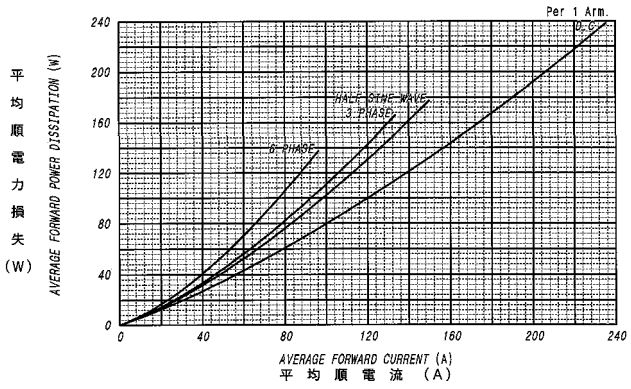
PF



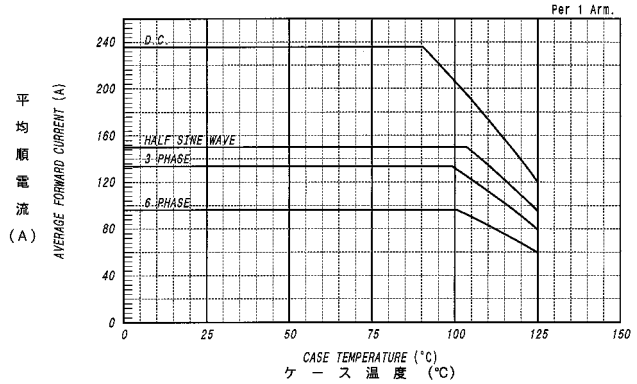
順電圧特性
FORWARD CURRENT VS. VOLTAGE



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

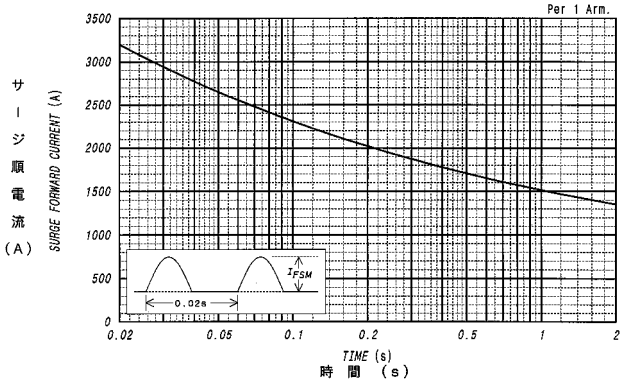


平均順電流－ケース温度定格
AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE



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

