

DIODE MODULE 100A/800V

PE1008N

PF1008N

FEATURES

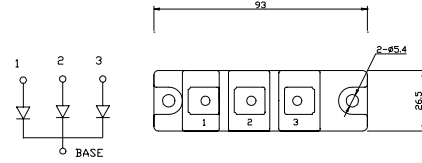
- * Cathode & Anode Common
- * 3 Phase Half Bridge Circuit
- * High Surge Capability
- * UL Recognized, File No. E187184

TYPICAL APPLICATIONS

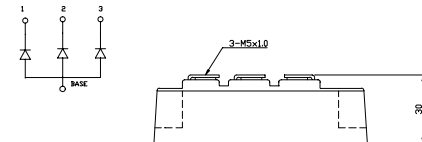
- * Rectified For General Use

OUTLINE DRAWING

PE



PF



Maximum Ratings

Approx Net Weight:155g

Parameter	Symbol	Type / Grade	Unit
		PE1008 / PF1008	
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 T _c =105°C		100	A
			3 Phase T _c =100°C		88	A
Surge Forward Current *1		I _{FSM}	50 Hz Half Sine Wave,1Pulse Non-repetitive		2000	A
I Squared t *1		I ² t	2msec to 10msec		20000	A ² s
Operating JunctionTemperature Range		T _{jw}			-40 to +150	°C
Storage Temperature Range		T _{stg}			-40 to +125	°C
Mounting torque	Case mounting	F _{tor}	Greased	M5 Screw	2.4 to 2.8	N.m
	Terminals		M5 Screw		2.4 to 2.8	

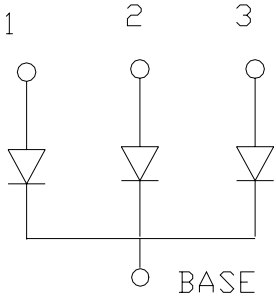
Electrical • Thermal Characteristics

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

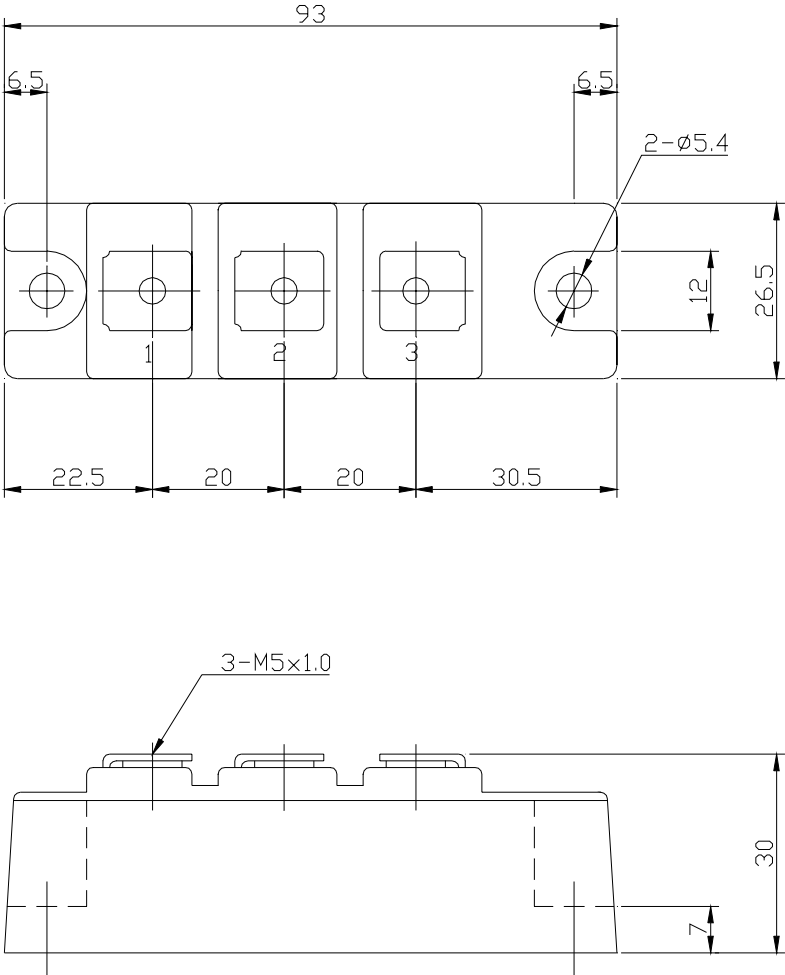
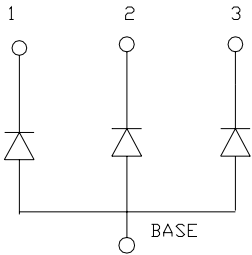
*1: Value Per 1Arm

PE/PF1008 OUTLINE DRAWING (Dimensions in mm)

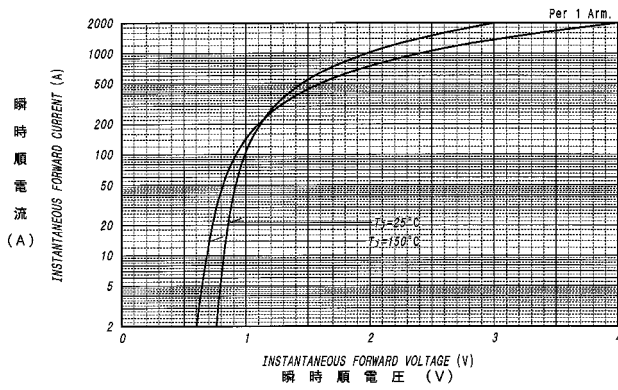
PE



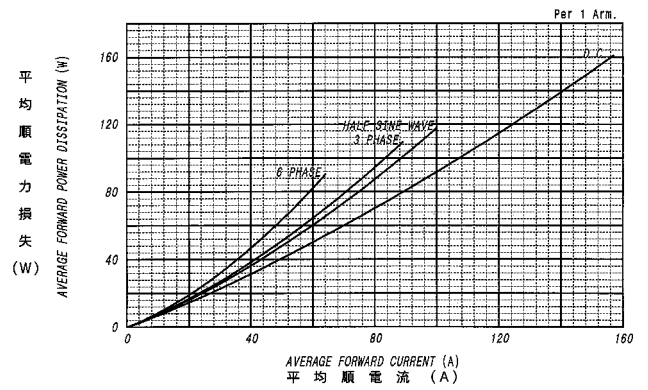
PF



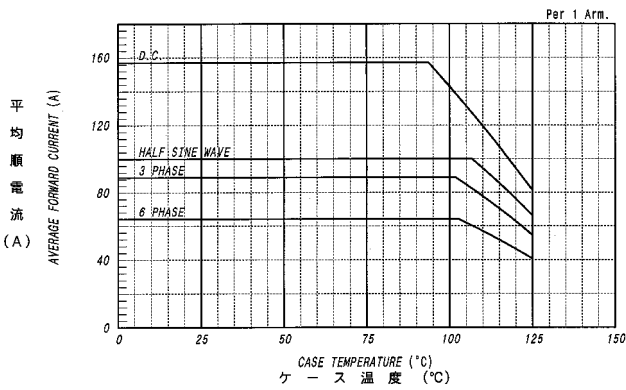
順電圧特性
FORWARD CURRENT VS. VOLTAGE



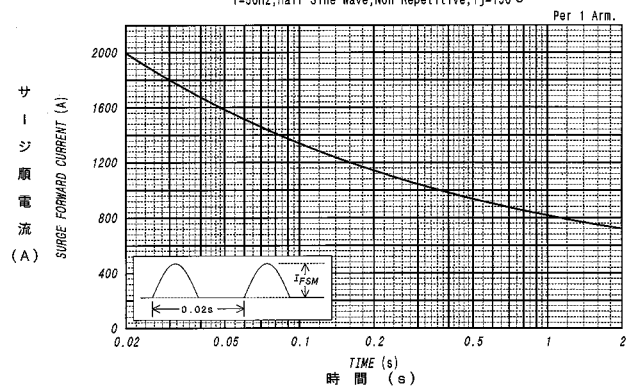
平均順電力損失特性
AVERAGE FORWARD POWER DISSIPATION



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
 $f=50\text{Hz}$, Half Sine Wave, Non-Repetitive, $T_j=150^\circ\text{C}$



過渡熱抵抗特性
MAXIMUM TRANSIENT THERMAL IMPEDANCE
Junction to Case

