

DIODE MODULE 100A/800V

PC1008
PD1008

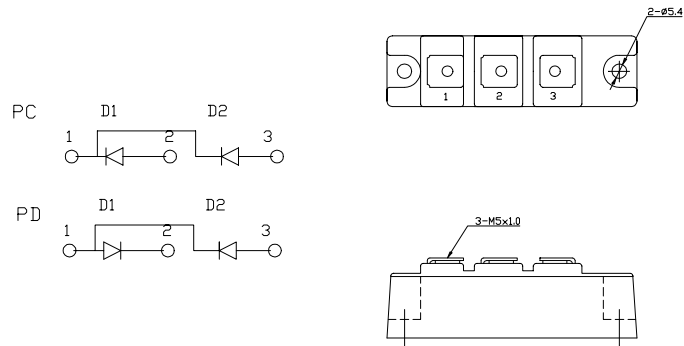
FEATURES

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

TYPICAL APPLICATIONS

- * Rectified For General Use

OUTLINE DRAWING



Maximum Ratings

Approx Net Weight:155g

Parameter	Symbol	Type / Grade	Unit
		PC1008 / PD1008	
Repetitive Peak Reverse Voltage *1	V_{RRM}	800	V
Non Repetitive Peak Reverse Voltage *1	V_{RSM}	960	

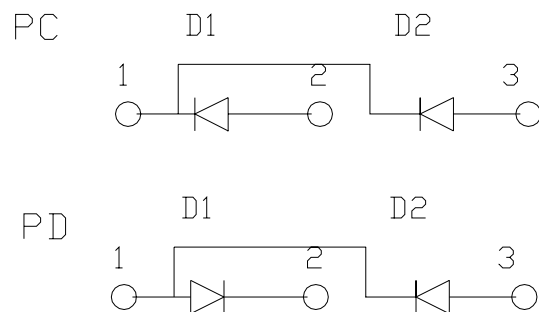
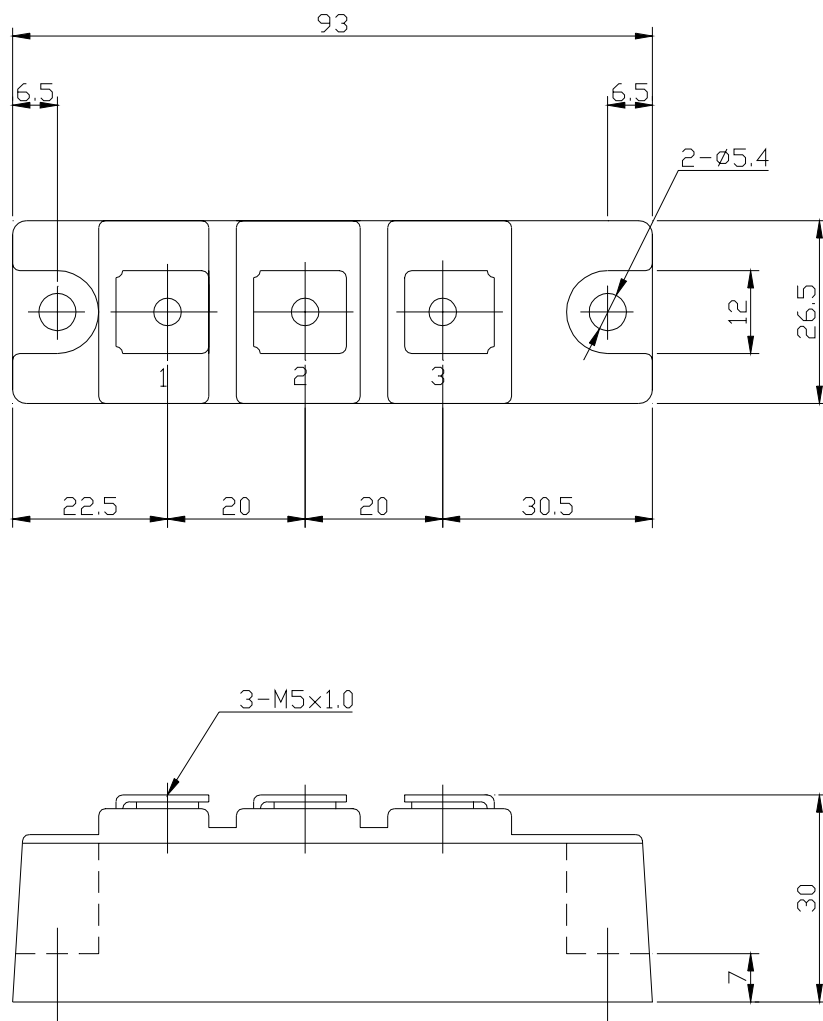
Parameter		Conditions	Max Rated Value	Unit
Average Rectified Output Current *1	$I_{O(AV)}$	50Hz Half Sine Wave condition $T_c=105^{\circ}\text{C}$	100	A
RMS Forward Current *1	$I_{F(RMS)}$		156	A
Surge Forward Current *1	I_{FSM}	50 Hz Half Sine Wave,1Pulse Non-repetitive	2000	A
I Squared t *1	I^2t	2msec to 10msec	20000	A^2s
Operating JunctionTemperature Range	T_{jw}		-40 to +150	$^{\circ}\text{C}$
Storage Temperature Range	T_{stg}		-40 to +125	$^{\circ}\text{C}$
Isolation Voltage	V_{iso}	Base Plate to Terminals, AC1min	2000	V
Mounting torque	Case mounting	F_{tor}	M5 Screw	N.m
	Terminals		M5 Screw	

Electrical • Thermal Characteristics

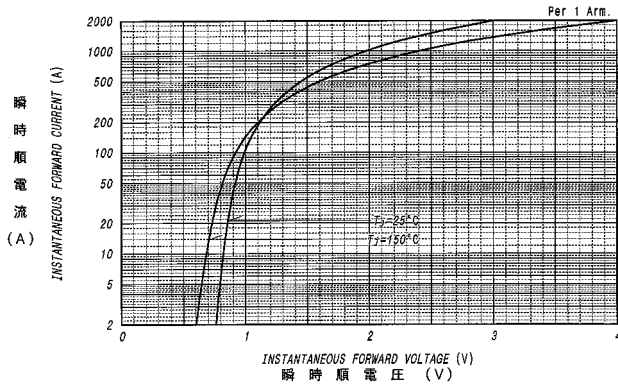
Characteristics	Symbol	Test Conditions	Max.	Unit
Peak Reverse Current *1	I_{RM}	$V_{RM}= V_{RRM}$, $T_j= 150^{\circ}\text{C}$	20	mA
Peak Forward Voltage *1	V_{FM}	$I_{FM}= 320\text{A}$, $T_j=25^{\circ}\text{C}$	1.25	V
Thermal Resistance *1	$R_{th(j-c)}$	Junction to Case	0.3	$^{\circ}\text{C/W}$
	$R_{th(c-f)}$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

*1: Value Per 1Arm

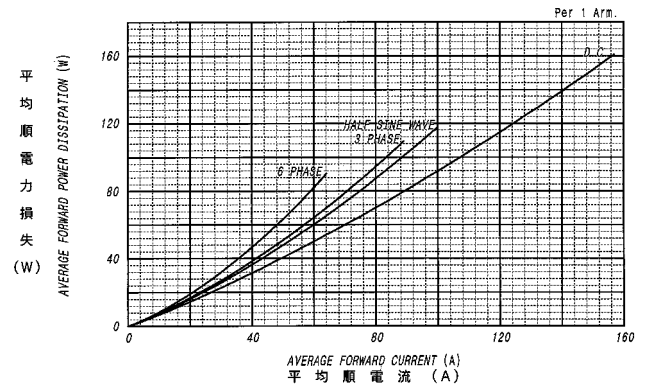
PC/PD1008 OUTLINE DRAWING (Dimensions in mm)



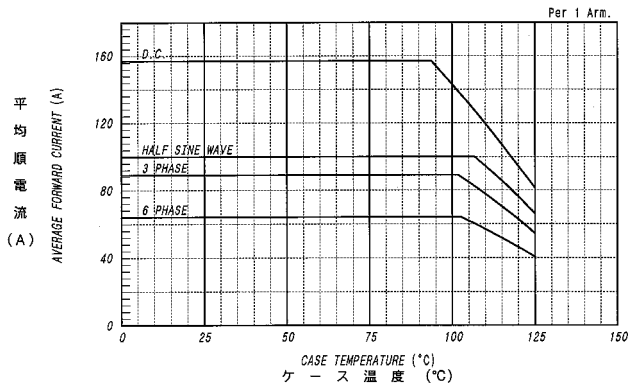
順電圧特性
FORWARD CURRENT VS. VOLTAGE



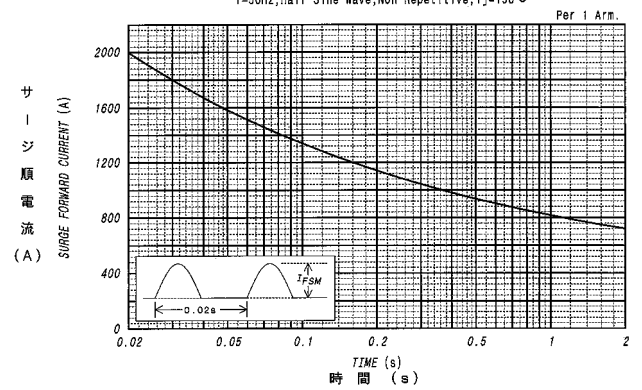
平均順電力損失特性
AVERAGE FORWARD POWER DISSIPATION



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



過渡熱抵抗特性
MAXIMUM TRANSIENT THERMAL IMPEDANCE

