

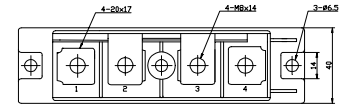
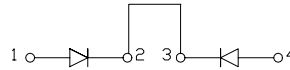
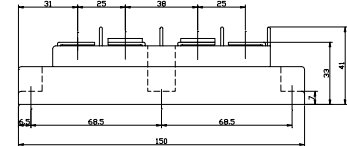
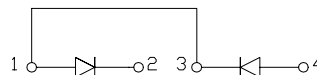
# DIODE MODULE 200A/1200 to 1600V

**PC20012 PC20016**
**PD20012 PD20016**
**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**
**PC**

**PD**

**Maximum Ratings**

Approx Net Weight:480g

Parameter	Symbol	Type / Grade		Unit
		PC20012 / PD20012	PC20016 / PD20016	
Repetitive Peak Reverse Voltage *1	$V_{RRM}$	1200	1600	V
Non Repetitive Peak Reverse Voltage *1	$V_{RSM}$	1300	1700	

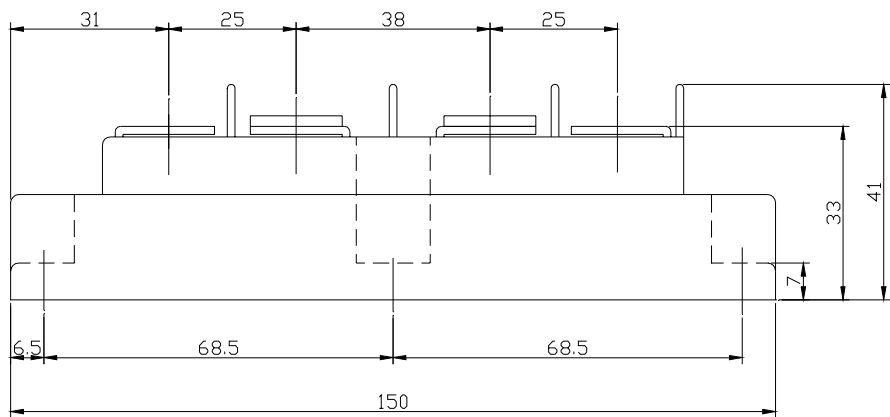
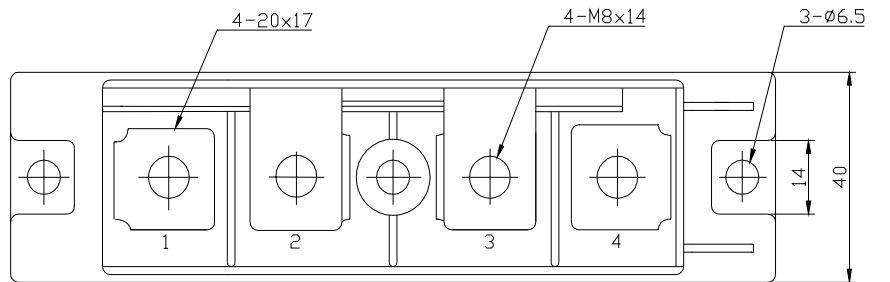
Parameter	Symbol	Conditions	Max Rated Value	Unit	
Average Rectified Output Current *1	$I_{O(AV)}$	50 Hz Half Sine Wave condition $T_c=77^\circ\text{C}$	200	A	
RMS Forward Current *1	$I_{F(RMS)}$		314	A	
Surge Forward Current *1	$I_{FSM}$	50 Hz Half Sine Wave, 1cycle, Non-Repetitive	4000	A	
I Squared t *1	$I^2t$	2msec to 10msec	80000	$\text{A}^2\text{s}$	
Operating Junction Temperature Range	$T_{jw}$		-40 to +125	$^\circ\text{C}$	
Storage Temperature Range	$T_{stg}$		-40 to +125	$^\circ\text{C}$	
Isolation Voltage	$V_{iso}$	Base Plate to Terminals, AC1min	2500	V	
Mounting Torque	Case Mounting	$F_{tor}$	M6 Screw	2.5 to 3.5	N.m
	Terminals		M8 Screw	9.0 to 10.0	

**Electrical • Thermal Characteristics**

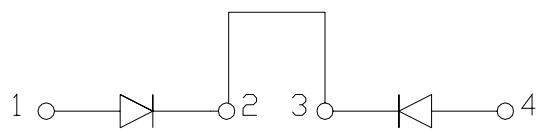
Characteristics	Symbol	Test Conditions	Max.	Unit
Peak Reverse Current *1	$I_{RM}$	$V_{RM}= V_{RRM}$ , $T_j= 125^\circ\text{C}$	30	mA
Peak Forward Voltage *1	$V_{FM}$	$I_{FM}= 600\text{A}$ , $T_j=25^\circ\text{C}$	1.28	V
Thermal Resistance *1	$R_{th(j-c)}$	Junction to Case	0.2	$^\circ\text{C/W}$
	$R_{th(c-f)}$	Case to Fin, Greased	0.1	

\*1: Value Per 1Arm

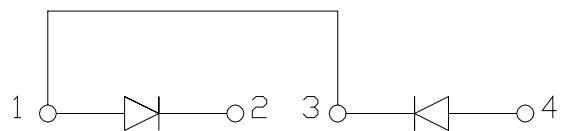
PC/PD20012/16 OUTLINE DRAWING (Dimensions in mm)



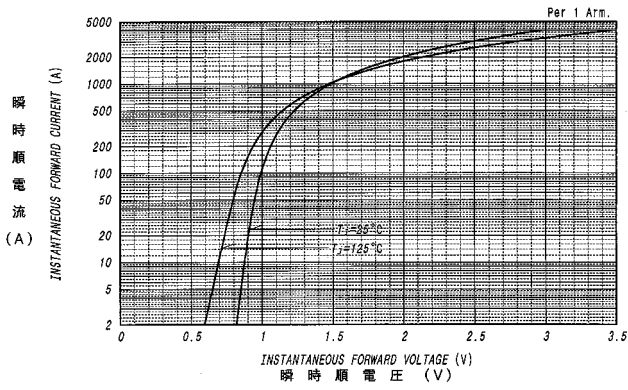
PC



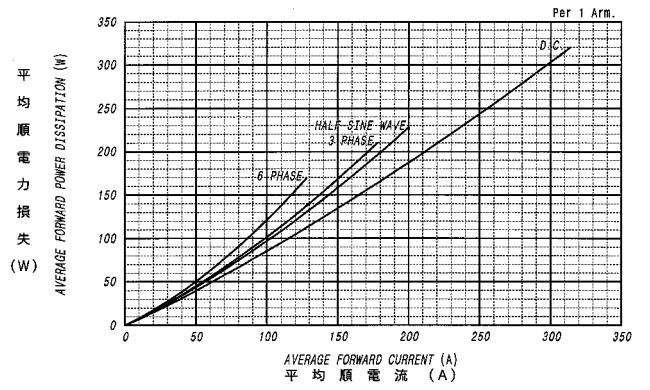
PD



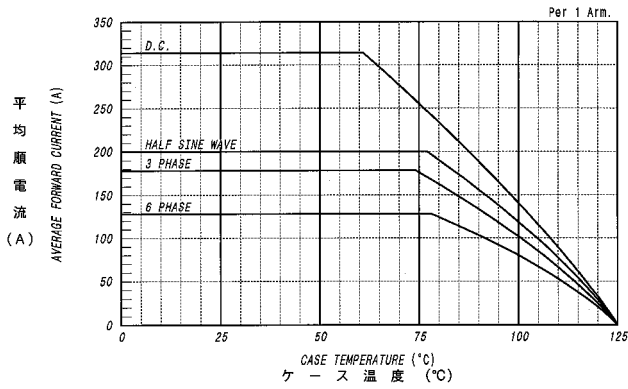
順電圧特性  
FORWARD CURRENT VS. VOLTAGE



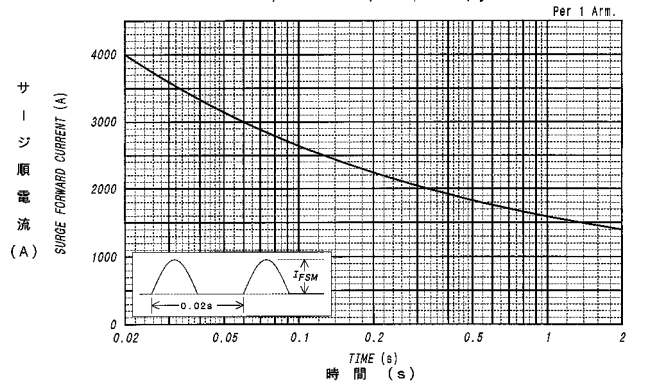
平均順電力損失特性  
AVERAGE FORWARD POWER DISSIPATION



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



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

