

DIODE MODULE 200A/1200 to 1600V

PC20012 PC20016

PD20012 PD20016

FEATURES

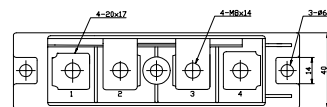
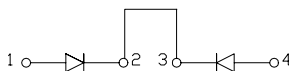
- * Isolated Base
- * Dual Diodes Cathode Common and Cascaded Circuit
- * High Surge Capability
- * UL Recognized, File No. E187184

TYPICAL APPLICATIONS

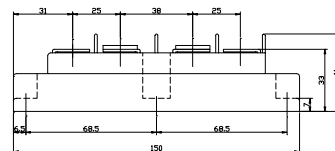
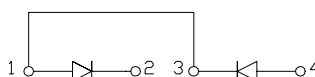
- * Rectified For General Use

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	

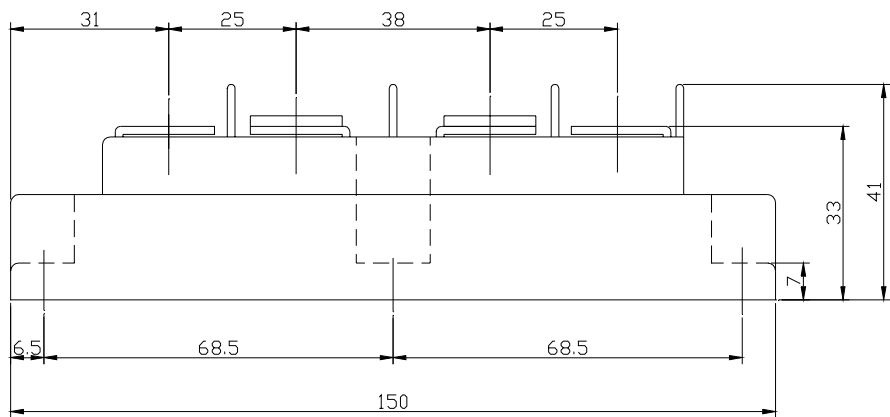
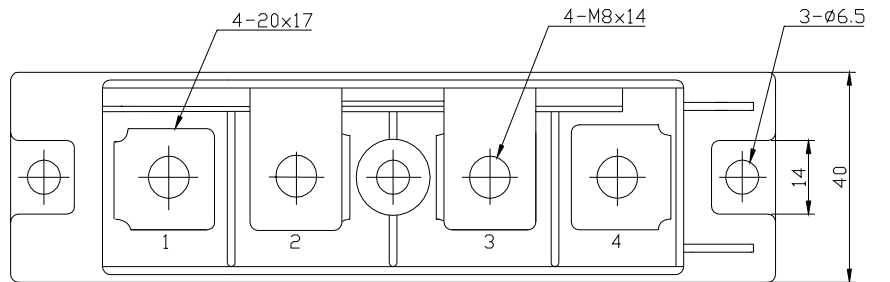
Parameter	Symbol	Conditions	Max Rated Value	Unit	
Average Rectified Output Current *1	$I_{O(AV)}$	50 Hz Half Sine Wave condition $T_c=77^\circ\text{C}$	200	A	
RMS Forward Current *1	$I_{F(RMS)}$		314	A	
Surge Forward Current *1	I_{FSM}	50 Hz Half Sine Wave, 1cycle, Non-Repetitive	4000	A	
I Squared t *1	I^2t	2msec to 10msec	80000	A^2s	
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

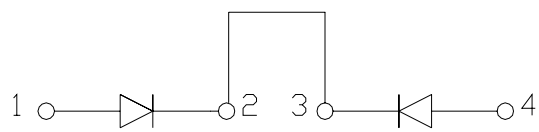
Characteristics	Symbol	Test Conditions	Max.	Unit
Peak Reverse Current *1	I_{RM}	$V_{RM}= V_{RRM}$, $T_j= 125^\circ\text{C}$	30	mA
Peak Forward Voltage *1	V_{FM}	$I_{FM}= 600\text{A}$, $T_j=25^\circ\text{C}$	1.28	V
Thermal Resistance *1	$R_{th(j-c)}$	Junction to Case	0.2	$^\circ\text{C/W}$
	$R_{th(c-f)}$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

*1: Value Per 1Arm

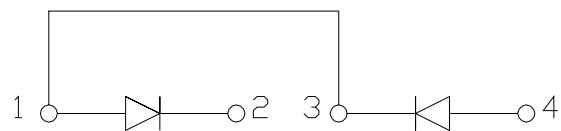
PC/PD20012/16 OUTLINE DRAWING (Dimensions in mm)



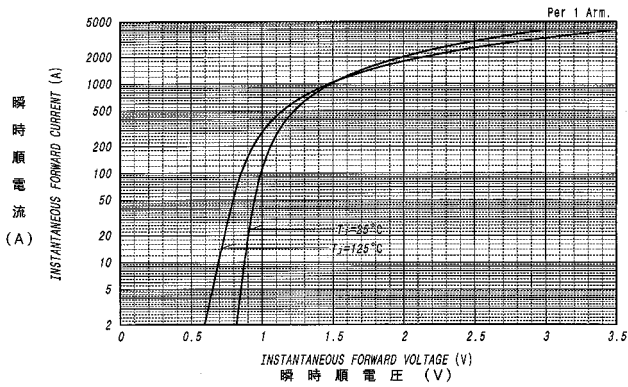
PC



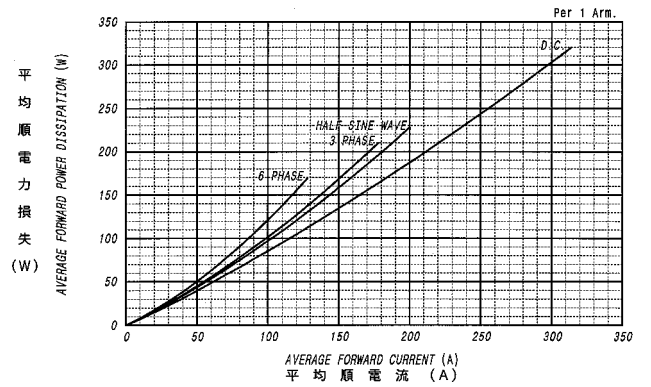
PD



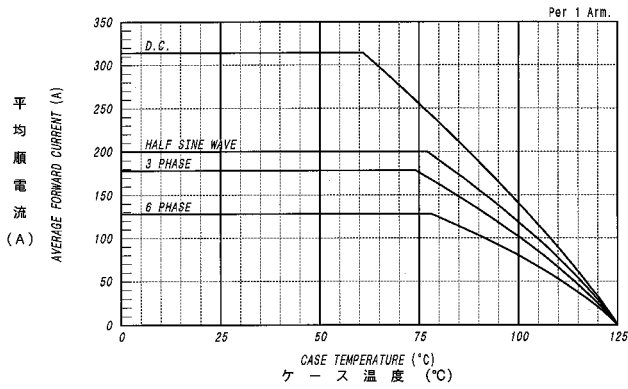
順電圧特性
FORWARD CURRENT VS. VOLTAGE



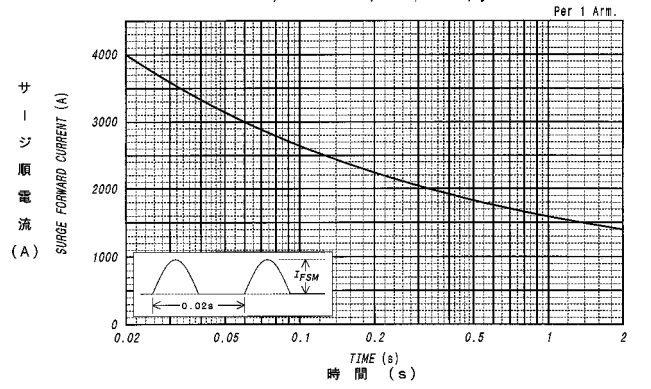
平均順電力損失特性
AVERAGE FORWARD POWER DISSIPATION



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

