

DIODE MODULE 150A/1200 to 1600V

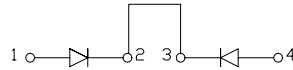
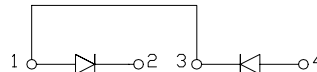
PC15012 PC15016
PD15012 PD15016

FEATURES

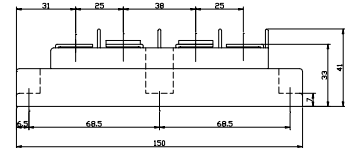
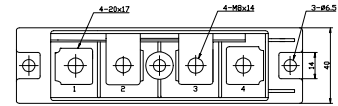
- * Isolated Base
- * Dual Diodes Cathode Common and Cascaded Circuit
- * High Surge Capability
- * UL Recognized, File No. E187184

TYPICAL APPLICATIONS

- * Rectified For General Use

PC

PD


OUTLINE DRAWING



Maximum Ratings

Approx Net Weight:480g

Parameter	Symbol	Type / Grade		Unit
		PC15012 / PD15012	PC15016 / PD15016	
Repetitive Peak Reverse Voltage *1	V_{RRM}	1200	1600	V
Non Repetitive Peak Reverse Voltage *1	V_{RSM}	1300	1700	

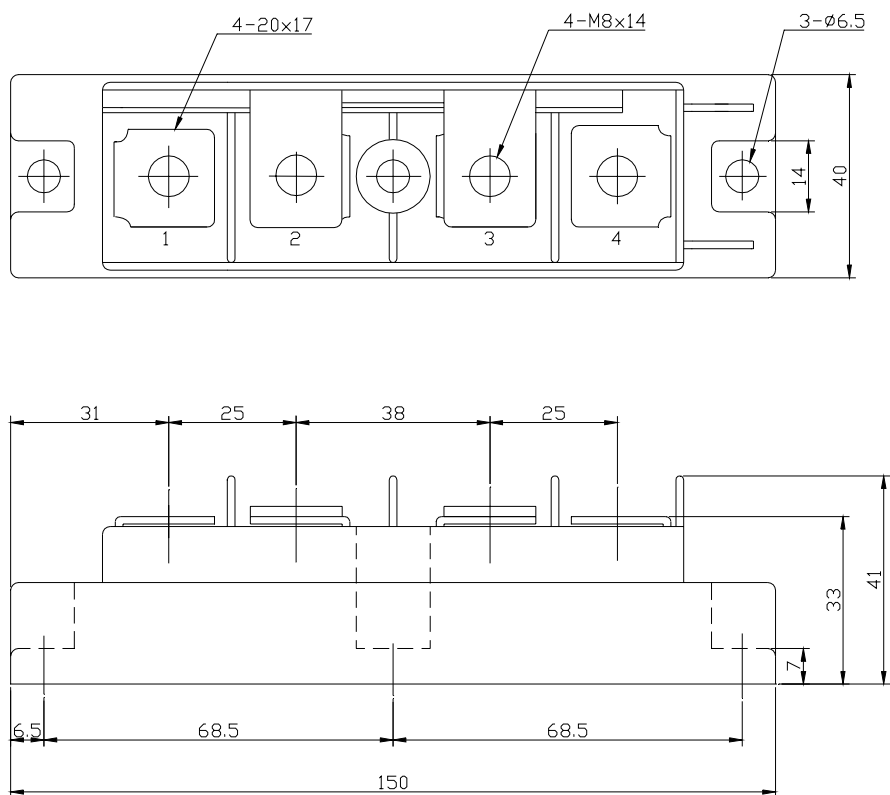
Parameter	Symbol	Conditions	Max Rated Value	Unit
Average Rectified Output Current *1	$I_{O(AV)}$	50 Hz Half Sine Wave condition $T_c=79^{\circ}\text{C}$	150	A
RMS Forward Current *1	$I_{F(RMS)}$	—	235	A
Surge Forward Current *1	I_{FSM}	50 Hz Half Sine Wave, 1cycle, Non-Repetitive	3200	A
I Squared t *1	I^2t	2msec to 10msec	51200	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	N.m
	Terminals		M8 Screw	

Electrical • Thermal Characteristics

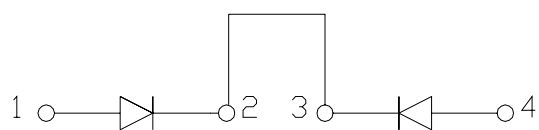
Characteristics	Symbol	Test Conditions	Max.	Unit
Peak Reverse Current *1	I_{RM}	$V_{RM}= V_{RRM}$, $T_j= 125^{\circ}\text{C}$	30	mA
Peak Forward Voltage *1	V_{FM}	$I_{FM}= 450\text{A}$, $T_j=25^{\circ}\text{C}$	1.28	V
Thermal Resistance *1	$R_{th(j-c)}$	Junction to Case	0.25	$^{\circ}\text{C/W}$
	$R_{th(c-f)}$	Case to Fin, Greased	0.1	

*1: Value Per 1Arm

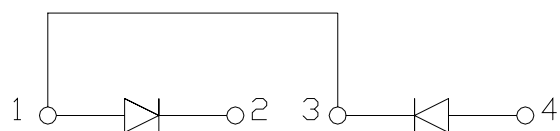
PC/PD15012/16 OUTLINE DRAWING (Dimensions in mm)



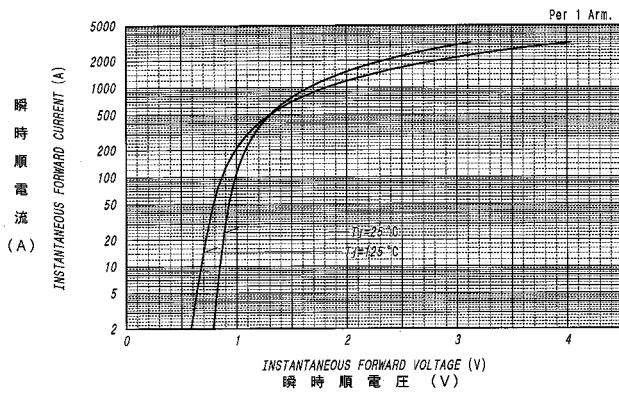
PC



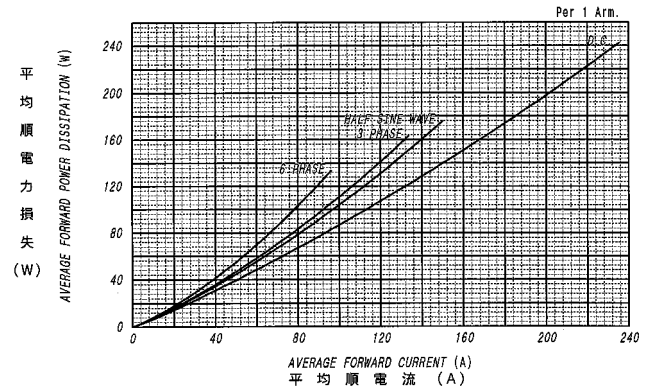
PD



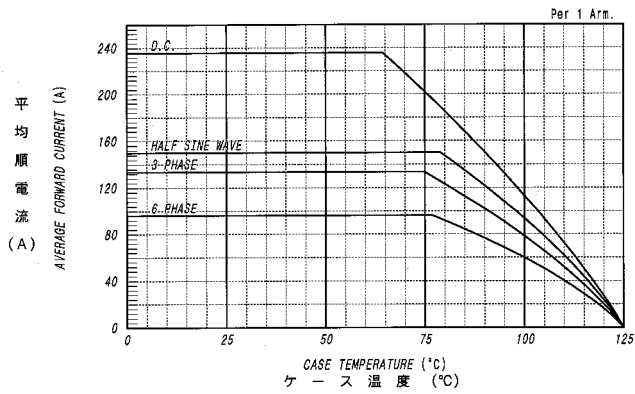
順電圧特性
FORWARD CURRENT VS. VOLTAGE



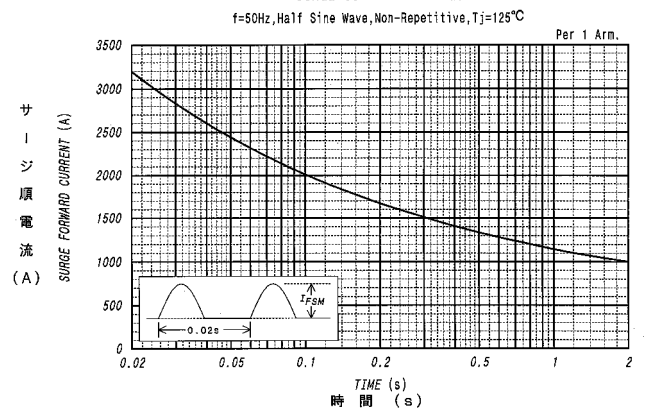
平均順電力損失特性
AVERAGE FORWARD POWER DISSIPATION



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

