



DIODE MODULE 150A/1200 to 1600V

PC15012 PC15016

PD15012 PD15016

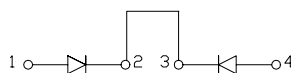
FEATURES

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

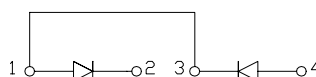
TYPICAL APPLICATIONS

- * Rectified For General Use

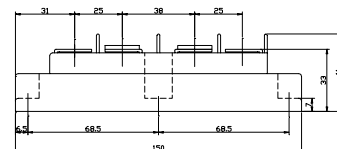
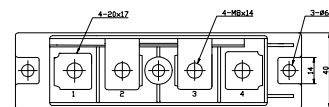
PC



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	2.5 to 3.5	N.m
	Terminals		M8 Screw		

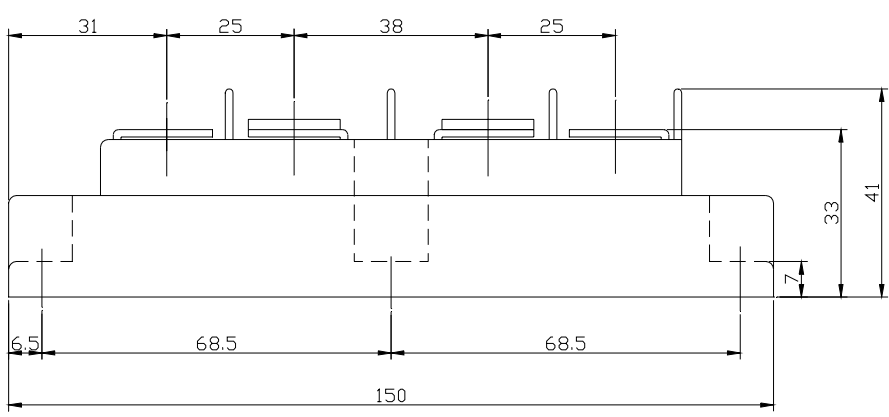
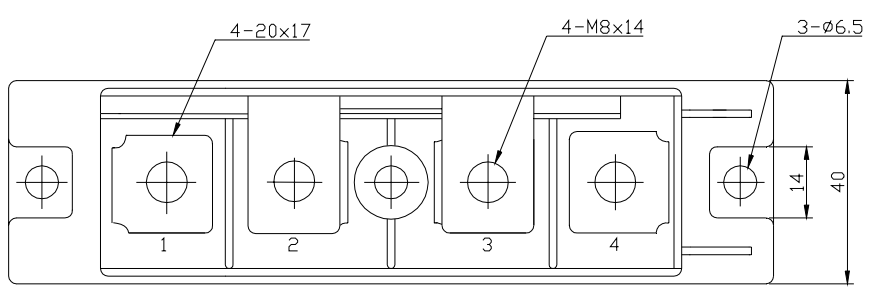
Electrical • Thermal Characteristics

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	

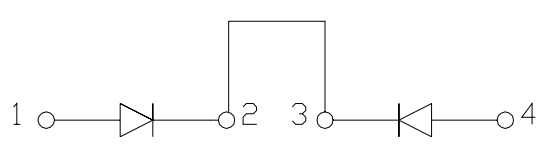
*1: Value Per 1Arm



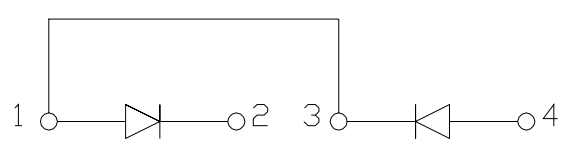
PC/PD15012/16 OUTLINE DRAWING (Dimensions in mm)



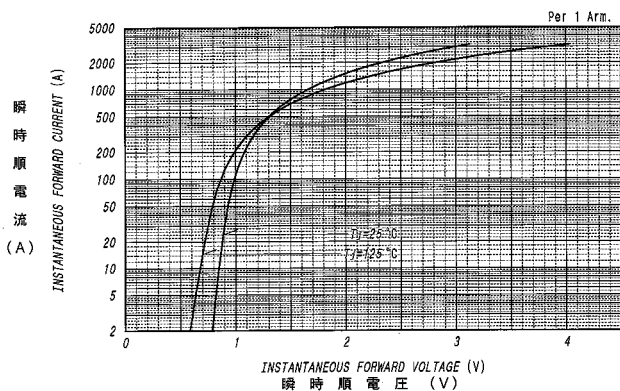
PC



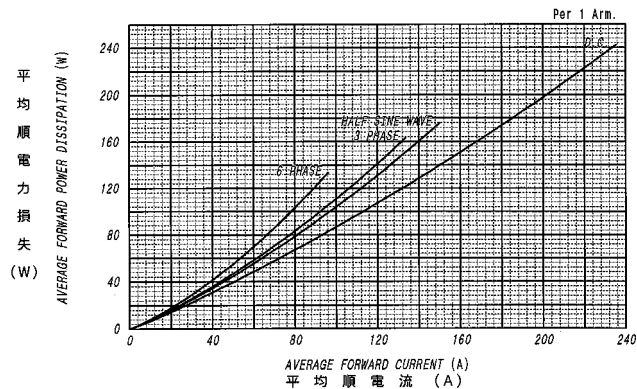
PD



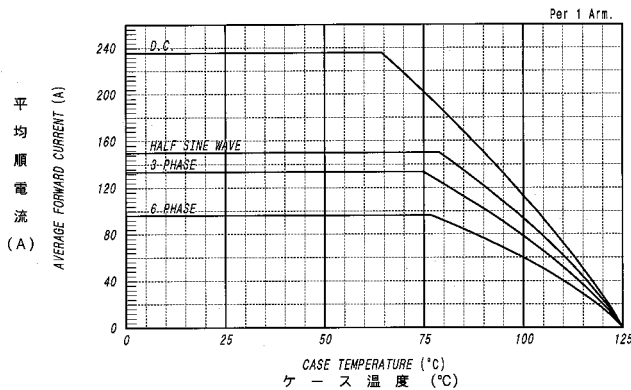
順電圧特性
FORWARD CURRENT VS. VOLTAGE



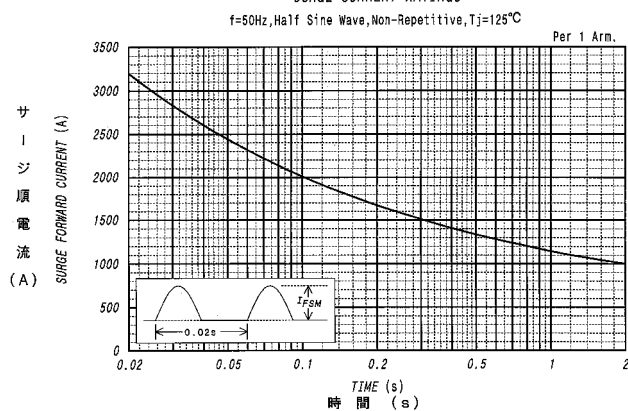
平均順電力損失特性
AVERAGE FORWARD POWER DISSIPATION



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

