

# DIODE MODULE 100A/1200 to 1600V

PC10012 PC10016

PD10012 PD10016

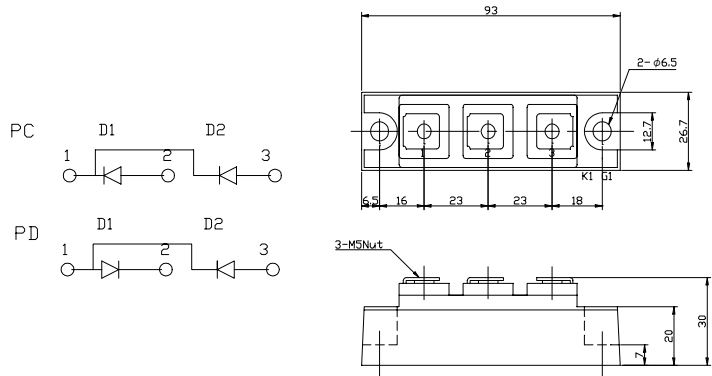
## FEATURES

- \* 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
		PC10012 / PD10012	PC10016 / PD10016	
Repetitive Peak Reverse Voltage *1	V <sub>RRM</sub>	1200	1600	V
Non Repetitive Peak Reverse Voltage *1	V <sub>RSM</sub>	1300	1700	

Parameter		Conditions	Max Rated Value	Unit
Average Rectified Output Current *1	I <sub>O(AV)</sub>	50Hz Half Sine Wave condition T <sub>c</sub> =80°C	100	A
RMS Forward Current *1	I <sub>F(RMS)</sub>		156	A
Surge Forward Current *1	I <sub>FSM</sub>	50 Hz Half Sine Wave, 1Pulse Non-repetitive	2000	A
I Squared t *1	I <sup>2</sup> t	2msec to 10msec	20000	A <sup>2</sup> s
Operating Junction Temperature Range	T <sub>jw</sub>		-40 to +150	°C
Storage Temperature Range	T <sub>stg</sub>		-40 to +125	°C
Isolation Voltage	Viso	Base Plate to Terminals, AC1min	2500	V
Mounting torque	Case mounting	M6 Screw	2.4 to 3.5	align="center">N.m
	Terminals	M5 Screw	2.4 to 2.8	

## Electrical • Thermal Characteristics

Characteristics	Symbol	Test Conditions	Max.	Unit
Peak Reverse Current *1	I <sub>RM</sub>	V <sub>RM</sub> = V <sub>RRM</sub> , T <sub>j</sub> = 125°C	20	mA
Peak Forward Voltage *1	V <sub>FM</sub>	I <sub>FM</sub> = 320A, T <sub>j</sub> =25°C	1.35	V
Thermal Resistance *1	R <sub>th(j-c)</sub>	Junction to Case	0.35	align="center">°C/W
	R <sub>th(c-f)</sub>	Base Plate to Heat Sink with Thermal Compound	0.2	

\*1: Value Per 1Arm

PC/PD10012 OUTLINE DRAWING (Dimensions in mm)

