

# DIODE MODULE 60A/1200 to 1600V

**PC6012 PC6016**
**PD6012 PD6016**

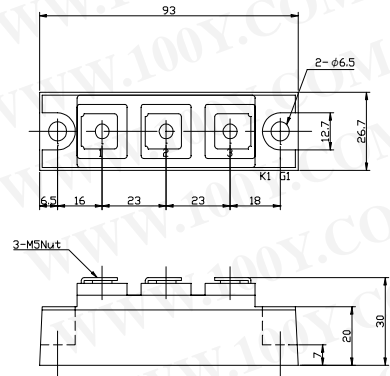
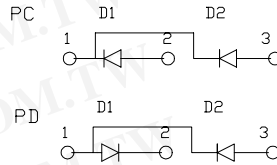
## FEATURES

- \* 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
		PC6012 / PD6012	PC6016 / PD6016	
Repetitive Peak Reverse Voltage *1	$V_{RRM}$	1200	1600	V
Non Repetitive Peak Reverse Voltage *1	$V_{RSM}$	1300	1700	

Parameter		Conditions	Max Rated Value	Unit	
Average Rectified Output Current *1	$I_{O(AV)}$	50Hz Half Sine Wave condition $T_c=87^\circ\text{C}$	60	A	
RMS Forward Current *1	$I_{F(RMS)}$		94	A	
Surge Forward Current *1	$I_{FSM}$	50 Hz Half Sine Wave, 1Pulse Non-repetitive	1200	A	
I Squared t *1	$I^2t$	2msec to 10msec	7200	$\text{A}^2\text{s}$	
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	Viso	Base Plate to Terminals, AC1min	2500	V	
Mounting torque	Case mounting	Ftor	M6 Screw	2.4 to 3.5	N.m
	Terminals		M5 Screw	2.4 to 2.8	

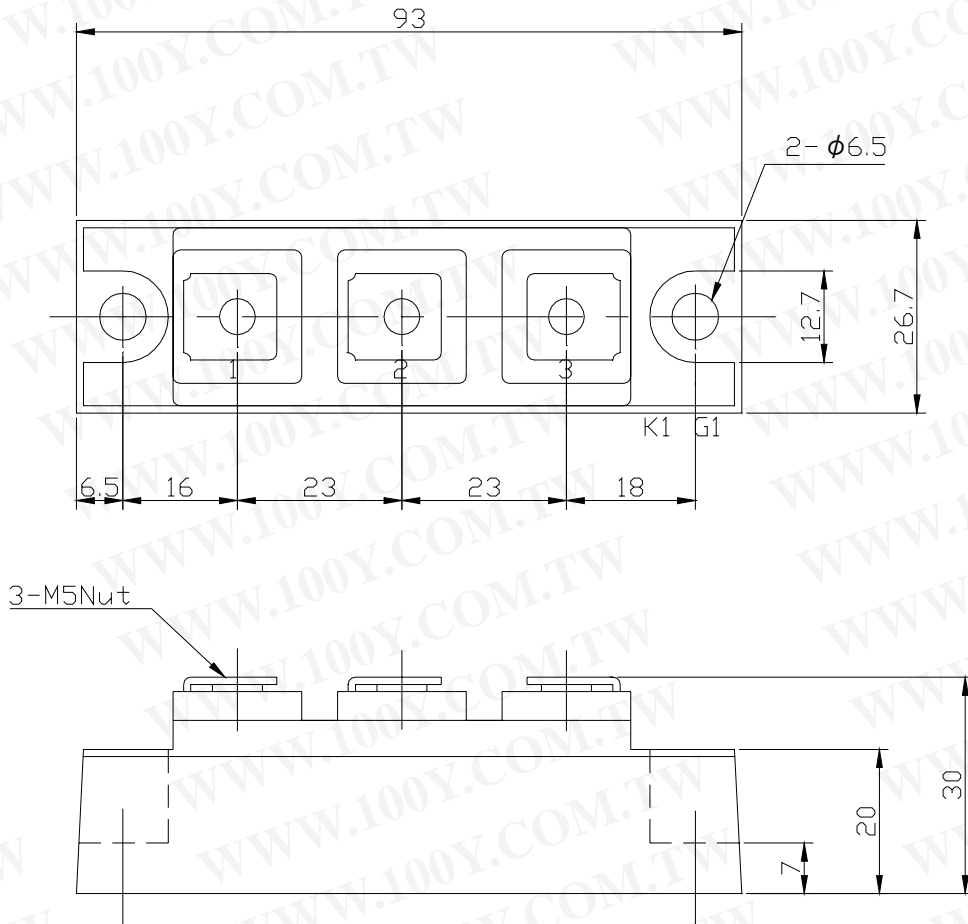
## Electrical • Thermal Characteristics

Characteristics	Symbol	Test Conditions	Max.	Unit
Peak Reverse Current *1	$I_{RM}$	$V_{RM}= V_{RRM}, T_j= 125^\circ\text{C}$	15	mA
Peak Forward Voltage *1	$V_{FM}$	$I_{FM}= 180\text{A}, T_j=25^\circ\text{C}$	1.35	V
Thermal Resistance *1	$R_{th(j-c)}$	Junction to Case	0.5	$^\circ\text{C/W}$
	$R_{th(c-f)}$	Base Plate to Heat Sink with Thermal Compound	0.2	

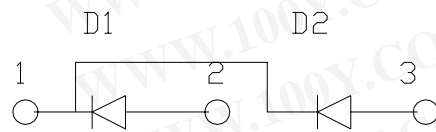
\*1: Value Per 1Arm

勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-34970699  
 勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

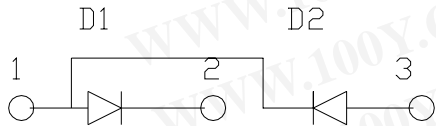
PC/PD6012 OUTLINE DRAWING (Dimensions in mm)



PC

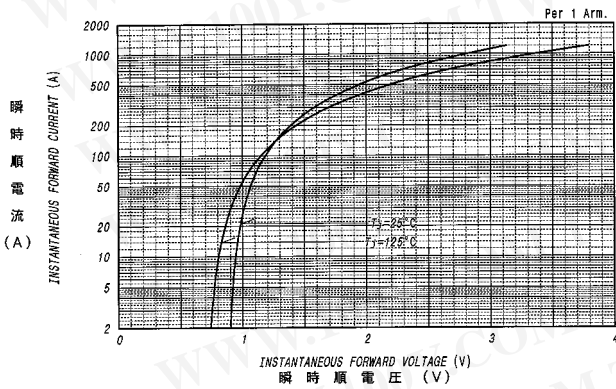


PD

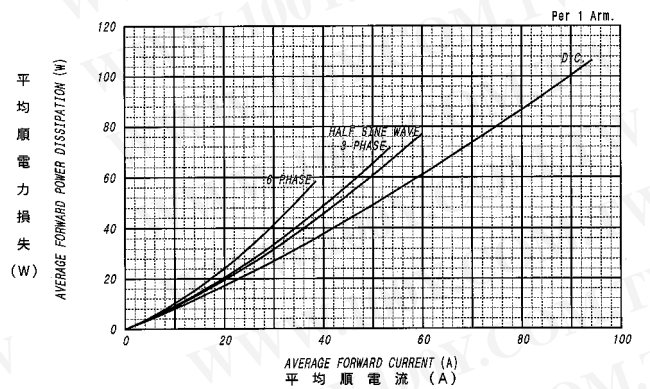


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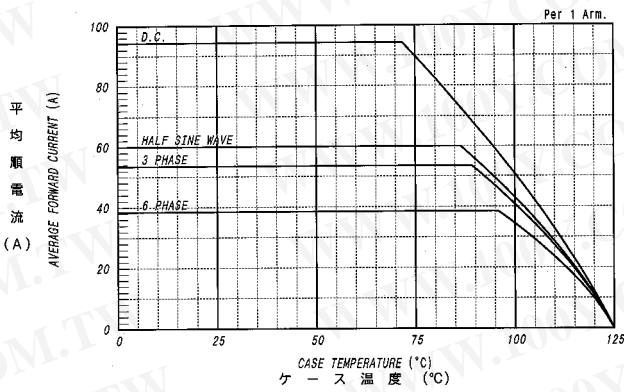
順電圧特性  
FORWARD CURRENT VS. VOLTAGE



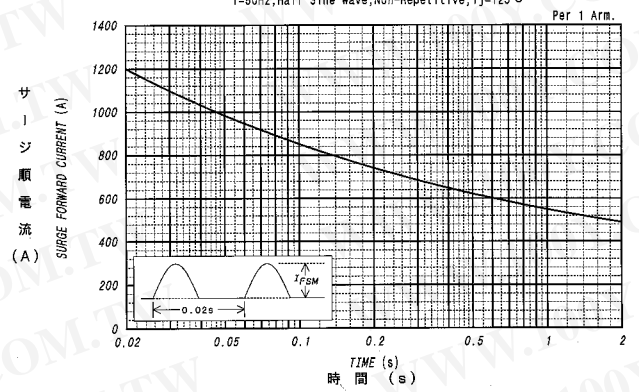
平均順電力損失特性  
AVERAGE FORWARD POWER DISSIPATION



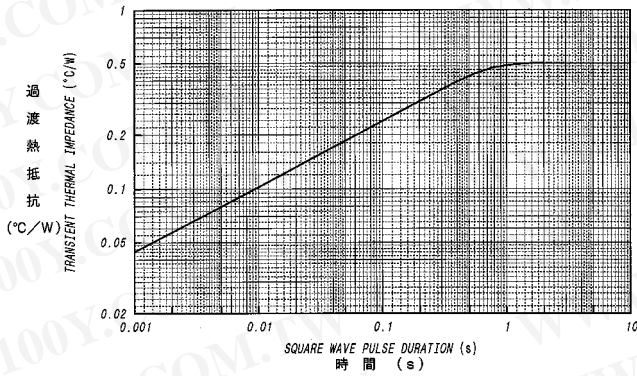
平均順電流 - ケース温度定格  
AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE



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



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