

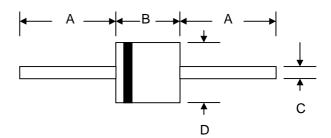
# **6.0A SILICON RECTIFIER**

### Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

### **Mechanical Data**

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 2.1 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- Epoxy: UL 94V-O rate flame retardant



P-600						
Dim	Min	Max				
Α	25.4	—				
В	8.60	9.10				
С	1.20	1.30				
D	8.60	9.10				
All Dimensions in mm						

## Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	P600A	P600B	P600D	P600G	P600J	P600K	P600M	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) $@T_A = 60^{\circ}C$	lo	6.0			A				
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	400			A				
Forward Voltage $@I_F = 6.0A$	Vfm	1.0				V			
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	Iгм	5.0 1.0			μA mA				
Typical Junction Capacitance (Note 2)	Cj	150			pF				
Typical Thermal Resistance Junction to Ambient (Note 1)	R∂JA	20			K/W				
Operating Temperature Range	Tj	-50 to +150			°C				
Storage Temperature Range	Tstg	-50 to +150			°C				

#### \*Glass passivated forms are available upon request

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

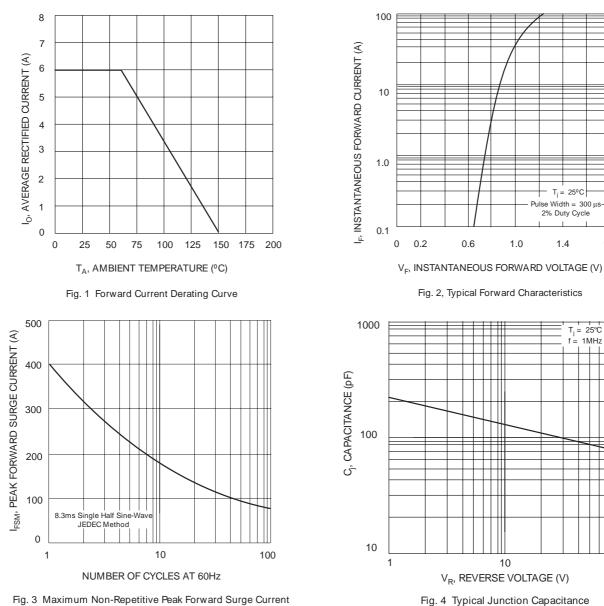


Fig. 4 Typical Junction Capacitance

1.8

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100

Product No.	Package Type	Shipping Quantity		
P600A-T3	P-600	800/Tape & Reel		
P600A	P-600	250 Units/Box		
P600B-T3	P-600	800/Tape & Reel		
P600B	P-600	250 Units/Box		
P600D-T3	P-600	800/Tape & Reel		
P600D	P-600	250 Units/Box		
P600G-T3	P-600	800/Tape & Reel		
P600G	P-600	250 Units/Box		
P600J-T3	P-600	800/Tape & Reel		
P600J	P-600	250 Units/Box		
P600K-T3	P-600	800/Tape & Reel		
P600K	P-600	250 Units/Box		
P600M-T3	P-600	800/Tape & Reel		
P600M	P-600	250 Units/Box		

Products listed in **bold** are WTE **Preferred** devices. \*T3 suffix refers to a 13" reel. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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