

P600A - P600M

AXIAL LEADED SILICON RECTIFIER DIODES

VOLTAGE RANGE: 50 - 1000V CURRENT: 6.0 A

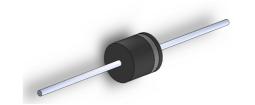
Features

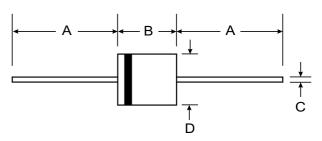
- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

Mechanical Data

- Case:R-6 Molded Plastic
- Terminals: Axial Leads, Solderable per MIL-STD-202, Method 208
- Polarity: Color Band Indicates Cathode
- Approx. Weight: 1.7 gramsMounting Position: Any







R-6							
Dim	Min	Max					
Α	25.4	_					
В	8.6	9.1					
С	1.2	1.3					
All Dimensions in mm							

Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

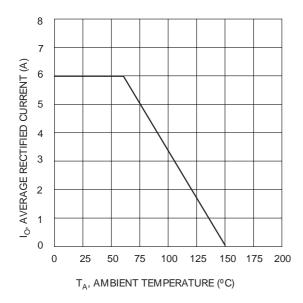
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

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	٧
Average Rectified Output Current (Note 1) @T _A = 60°C	lo	6.0						Α	
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 $@T_A = 100^{\circ}C$	lкм	5.0 1.0						μA mA	
Typical Junction Capacitance (Note 2)	Cj	150						pF	
Typical Thermal Resistance Junction to Ambient (Note 1)	RθJA	20					K/W		
Operating Temperature Range	Tj	-50 to +150					°C		
Storage Temperature Range	Тѕтс	-50 to +150					°C		

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.





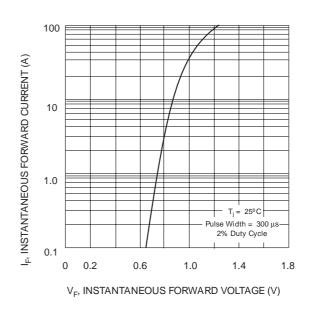


Fig. 1 Forward Current Derating Curve

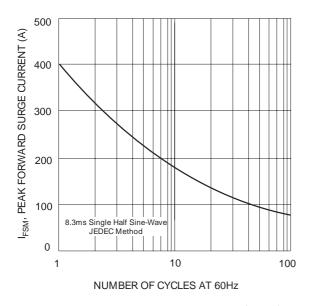


Fig. 3 Maximum Non-Repetitive Peak Forward Surge Current

Fig. 2, Typical Forward Characteristics

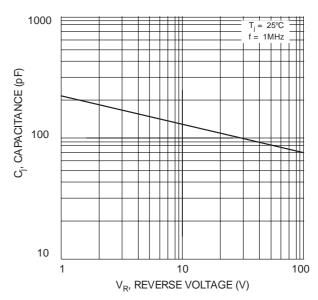


Fig. 4 Typical Junction Capacitance