

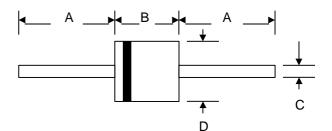
GENERAL PURPOSE RECTIFIER DIODE

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 @TA=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 $@I_F = 6.0A$	Vfм	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)	Røja	20					K/W		
Operating Temperature Range	Tj	-50 to +150						°C	
Storage Temperature Range	Тѕтс	-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

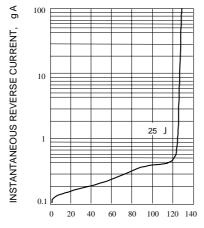
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



GENERAL PURPOSE RECTIFIER DIODE

RATING AND CHARACTERISTIC CURVES

P600A THRU P600M



PERCENT OF RATED PEAK REVERSE VOLTAGE

Fig. 1-TYPICAL REVERSE CHARACTERISTICS

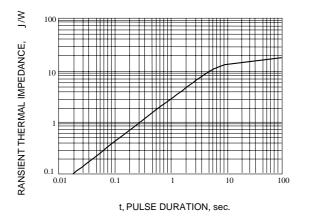


Fig. 3-TYPICAL TRANSIENT THERMAL IMPEDANCE

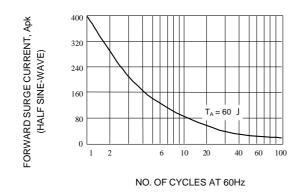


Fig. 5-MAXIMUM OVERLOAD SURGE CURRENT

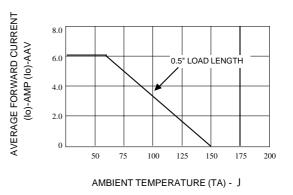
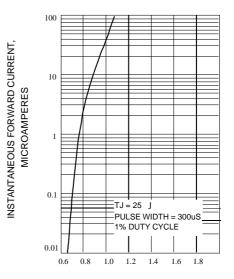


Fig. 2-FORWARD DERATING CURVE



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

Fig. 4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS