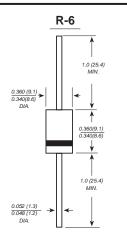


# **P600A THRU P600M**

## **GENERAL PURPOSE SILICON RECTIFIER**

Reverse Voltage - 50 to 1000 Volts Forward Current - 6.0 Amperes



Dimensions in inches and (millimeters)

#### **FEATURES**

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge current capability
- → High temperature soldering guaranteed: 250°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

#### **MECHANICAL DATA**

Case: R-6 molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.072 ounce, 2.05 grams

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

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

MDD Catalog Number	SYMBOLS	P600A	P600B	P600D	P600G	P600J	P600K	P600M	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current 0.375"(9.5mm) lead length at Ta=60℃	l(AV)	6.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	lfsm	400						Amps	
Maximum instantaneous forward voltage at 6.0A	VF	0.95						Volts	
Maximum DC reverse current Ta=25°C at rated DC blocking voltage Ta=100°C	lR	10.0 400						μΑ	
Typical junction capacitance (NOTE 1)	Сл	200						pF	
Typical thermal resistance (NOTE 2)	Reja	10.0						°C/W	
Operating junction and storage temperature range	ТЈ,Тѕтс	-65 to +175						°C	

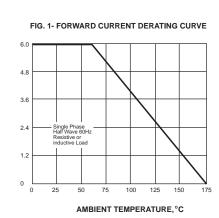
Note: 1. Measured at 1 MHz and applied reverse voltage of 4.0 V D.C.

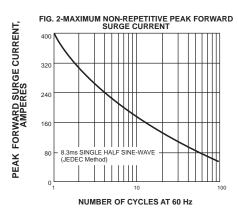
2.Thermal resistance from junction to ambient at 0.375" (9.5mm)lead length, P.C.B. mounted

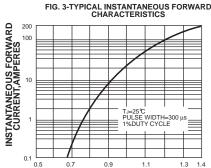
### MDD ELECTRONIC

#### RATINGS AND CHARACTERISTIC CURVES P600A THRU P600M

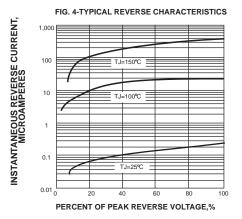




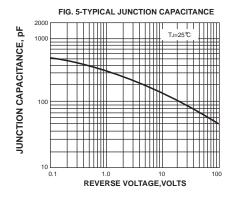


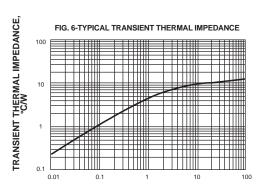












t,PULSE DURATION,sec.

### MDD ELECTRONIC