

# P600A THRU P600M

## GENERAL PURPOSE PLASTIC RECTIFIER

VOLTAGE:50 TO 1000V      CURRENT: 6.0A

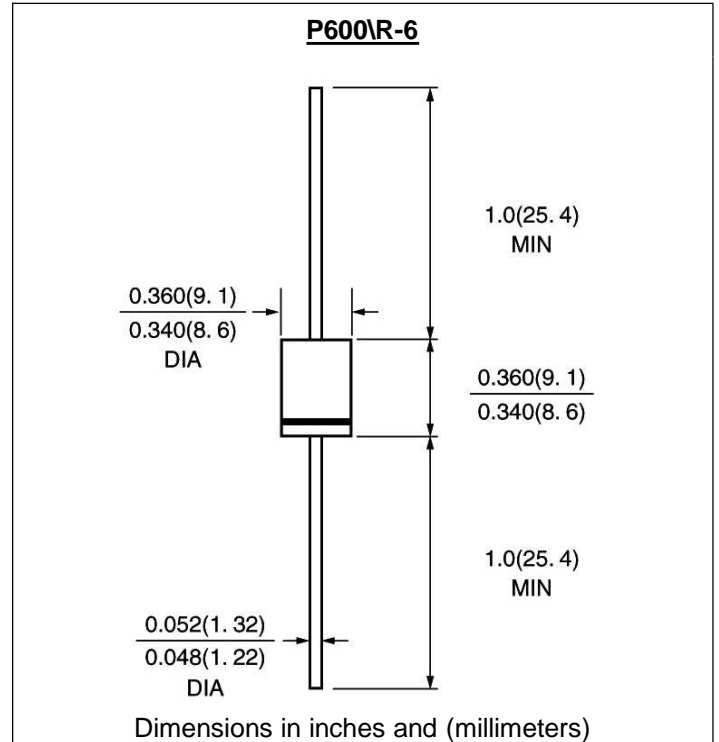


### FEATURE

Molded case feature for auto insertion  
High current capability  
Low leakage current  
High surge capability  
High temperature soldering guaranteed  
250°C/10sec/0.375"lead length at 5 lbs tension

### MECHANICAL DATA

Terminal:Plated axial leads solderable per MIL-STD 202E, method 208C  
Case:Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy  
Polarity:color band denotes cathode  
Mounting position:any



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

	SYMBOL	P600A	P600B	P600D	P600G	P600J	P600K	P600M	units
* Maximum Recurrent Peak Reverse Voltage	V <sub>rrm</sub>	50	100	200	400	600	800	1000	V
* Maximum RMS Voltage	V <sub>rms</sub>	35	70	140	280	420	560	700	V
* Maximum DC blocking Voltage	V <sub>dc</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 3/8"lead length at T <sub>a</sub> =63°C	I <sub>f(av)</sub>	6.0							A
Peak Forward Surge Current 8.3ms single Half sine-wave superimposed on rated load	I <sub>fsm</sub>	400.0							A
Maximum Instantaneous Forward Voltage at rated forward current	V <sub>f</sub>	1.1							V
Maximum full load reverse current full cycle at T <sub>L</sub> =75°C	I <sub>r(av)</sub>	50.0							μA
Maximum DC Reverse Current at rated DC blocking voltage	I <sub>r</sub>	10.0 100.0							μA μA
Typical Junction Capacitance (Note 1)	C <sub>j</sub>	150.0							pF
Typical Thermal Resistance (Note 2)	R(ja)	10.0							°C/W
Storage and Operation Junction Temperature	T <sub>stg</sub>	-50 to +175							°C

Note:

1. Measured at 1.0 MHz and applied voltage of 4.0Vdc
2. Thermal Resistance from Junction to Ambient at 0.375"lead length, P.C. Board Mounted<sup>1</sup>

# RATINGS AND CHARACTERISTIC CURVES P600A THRU P600M

