P600A THRU P600M

GENERAL PURPOSE PLASTIC RECTIFIER

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

Case Style P600 **FEATURES** Plastic package has Underwriters Laboratory ٠ Flammability Classification 94V-0 High forward current capability Construction utilizes void-free molded plastic technique High 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: Void-free molded plastic body Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026 Polarity: Color band denotes cathode end Mounting Position: Any Weight: 0.07 ounce, 2.1 grams

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

	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 at TA=60°C, 0.375" (9.5mm) lead length (FIG 1) TL=60°C, 0.125" (3.18mm) lead length (FIG 2)	l(AV)				6.0 22.0	-	-	-	Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM				400.0				Amps
Maximum instantaneous forward voltage at: 6.0A 100A					0.90 1.30			1.0 1.4	Volts
Maximum DC reverse currentTA=2at rated DC blocking voltageTA=1	25°C 00°C I _R				5.0 1.0				μA mA
Typical junction capacitance (NOTE 1)		150.0						pF	
Typical reverse recovery time (NOTE 2)		2.5							μS
Typical thermal resistance (NOTE 3)		20.0 4.0						°C/W	
Operating junction and storage temperature range		-50 to +150							°C

NOTES:

(1) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts

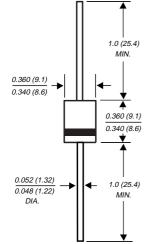
(2) Reverse recovery time conditions: IF=0.5A, IR=1.0A, Irr=0.25A

(3) Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5mm) lead length,

P.C.B. mounted with 1.1 x 1.1 (30 x 30mm) copper pads







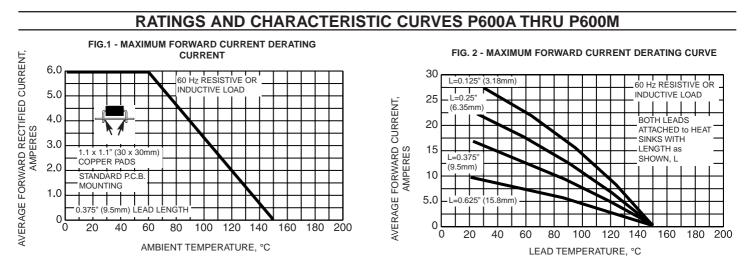


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

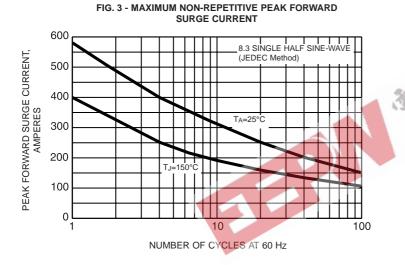
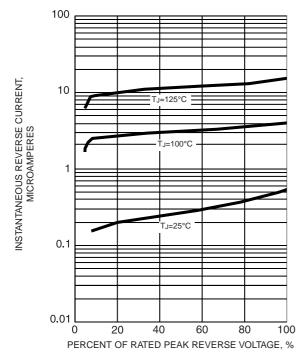
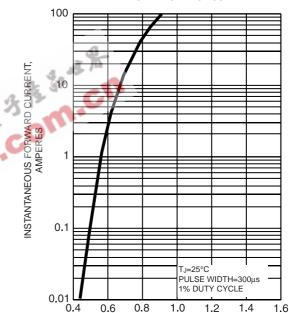


FIG. 5 - TYPICAL REVERSE CHARACTERISTIC





INSTANTANEOUS FORWARD VOLTAGE, VOLTS

