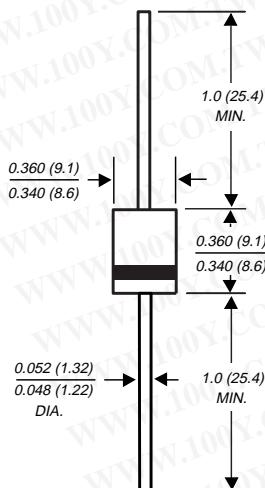


P600A THRU P600M

GENERAL PURPOSE PLASTIC RECTIFIER

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

Case Style P600



Dimensions in inches and (millimeters)

FEATURES

- ◆ Plastic package has Underwriters Laboratory 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

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)	IAV	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	VF	0.90 1.30						1.0 1.4	Volts
Maximum DC reverse current at rated DC blocking voltage TA= 25°C TA=100°C	IR	5.0 1.0							µA mA
Typical junction capacitance (NOTE 1)	CJ	150.0							pF
Typical reverse recovery time (NOTE 2)	trr	2.5							µS
Typical thermal resistance (NOTE 3)	ReJA ReJL	20.0 4.0							°C/W
Operating junction and storage temperature range	TJ, TSTG	-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

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RATINGS AND CHARACTERISTIC CURVES P600A THRU P600M

FIG. 1 - MAXIMUM FORWARD CURRENT DERATING CURRENT

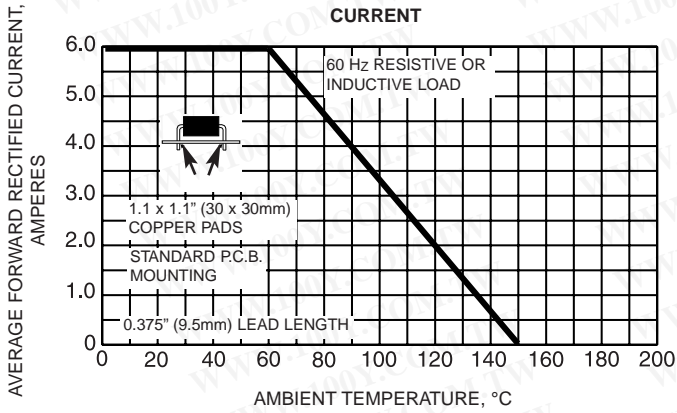


FIG. 2 - MAXIMUM FORWARD CURRENT DERATING CURVE

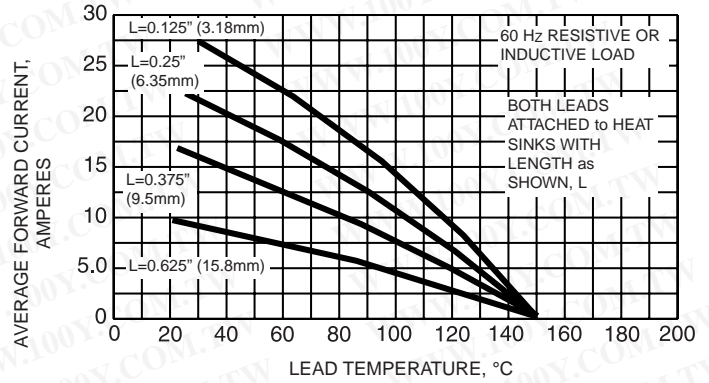


FIG. 3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

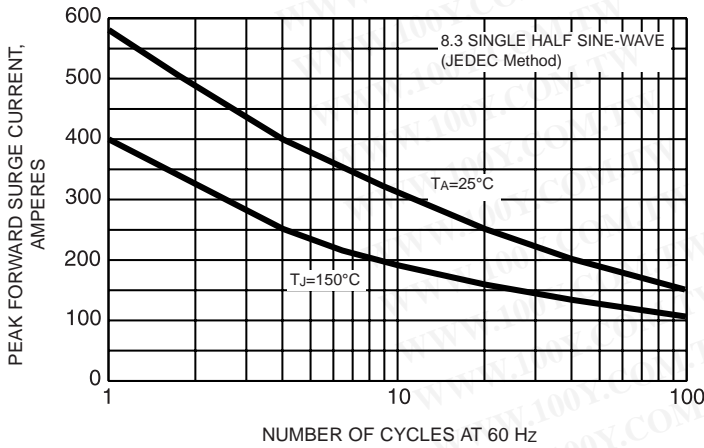


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

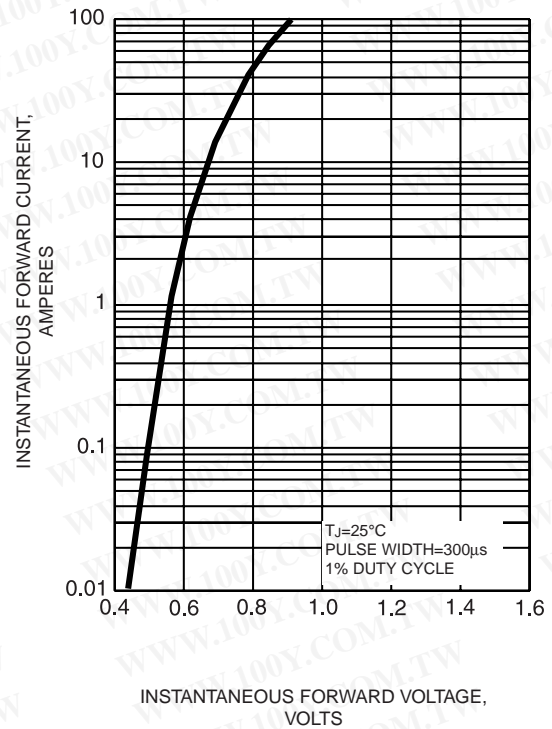


FIG. 5 - TYPICAL REVERSE CHARACTERISTIC

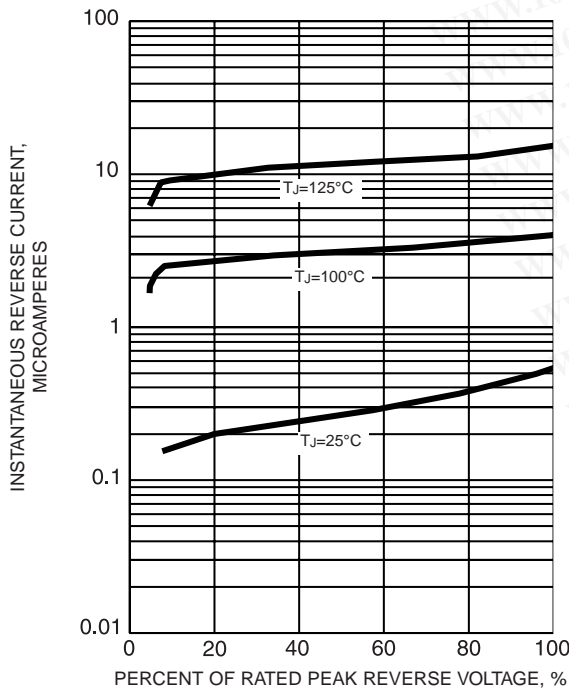
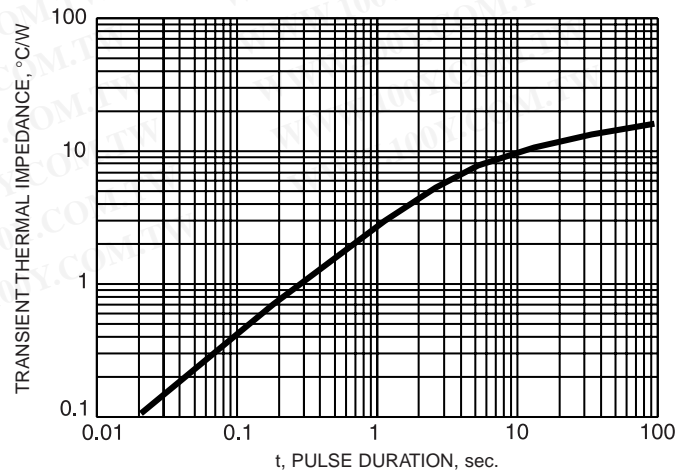


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE



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