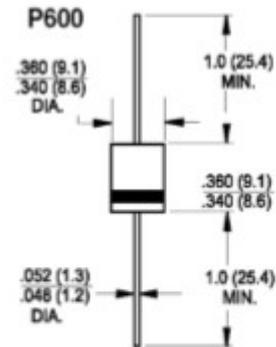
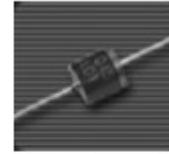


## Features

- ◆ Glass Passivated Chip
- ◆ Low forward voltage drop
- ◆ High current capability
- ◆ The plastic material carries UL recognition 94V-0
- ◆ For use in low voltage , high frequency inverters , free wheeling , and polarity protection applications

## Mechanical Data

- ◆ Case : JEDEC P600molded plastic
- ◆ Polarity : Color band denotes cathode
- ◆ Weight : 0.074 ounce , 2.1 gram
- ◆ Mounting position : Any



Dimensions in inches and (millimeters)

## 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, derate current by 20%

Parameter	Symbol	P600TG	Units
Maximum repetitive peak reverse voltage	$V_{RRM}$	1300	Volts
Maximum RMS voltage	$V_{RMS}$	910	Volts
Maximum DC blocking voltage	$V_{DC}$	1300	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at $T_A=60^\circ\text{C}$	$I_{F(AV)}$	6	Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rates load (JEDEC Method)	$I_{FSM}$	400	Amps
Maximum instantaneous forward voltage at 6.0A	$V_F$	1.3	Volts
Maximum DC reverse current at rated DC blocking voltage	$I_R$	$T_A=25^\circ\text{C}$	5
		$T_A=100^\circ\text{C}$	100
Typical junction capacitance (Note 1)	$C_j$	150	pF
Typical thermal resistance from junction to ambient	$R_{\theta JA}$	38	°C/W
Typical thermal resistance from junction to lead wire	$R_{\theta JL}$	16	
Typical thermal resistance from junction to case	$R_{\theta JC}$	19	
Maximum Operating junction temperature	$T_j$	150	°C
storage temperature range	$T_{STG}$	-55 to +150	°C

Notes: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

# RATINGS AND CHARACTERISTIC CURVES

(TA = 25°C unless otherwise noted)

FIG.1-FORWARD CURRENT DERATING CURVE

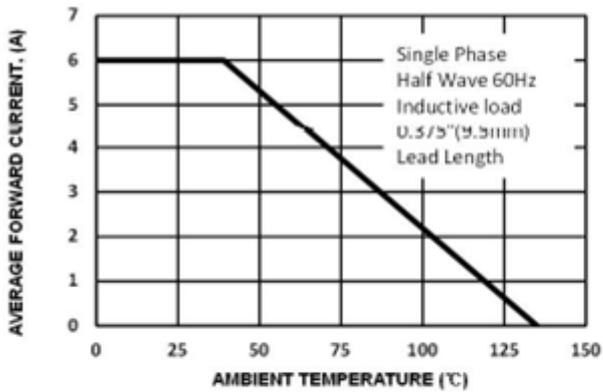


FIG 2-TYPICAL FORWARD CURRENT DERATING CURVE

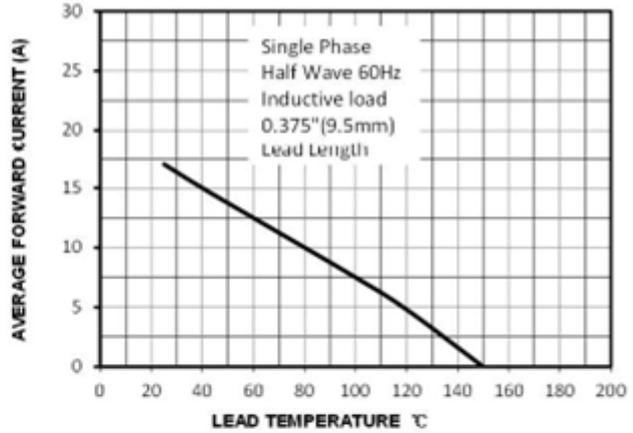


FIG 2-MAXIMUM NON-REPETITIVE SURGE CURRENT

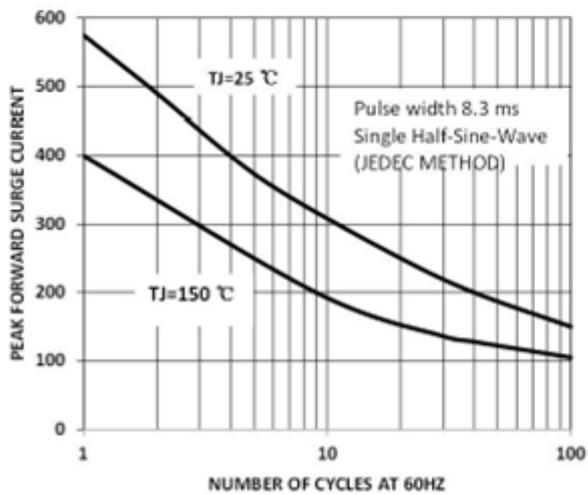


FIG 4-TYPICAL FORWARD CHARACTERISTICS

