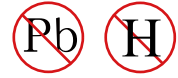




Glass Passivated Rectifiers

VOLTAGE - 50 to 1000 Volts. CURRENT - 6.0 Amps.

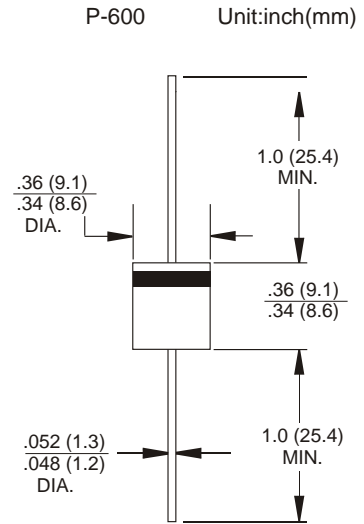


FEATURES

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Plastic material-UL flammability 94V-0

MECHANICAL DATA

- Case: Molded plastic P-600
- Terminals: Plated leads solderable per MIL-STD-202, Method 208 guaranteed
- Polarity: Color band dented cathode end
- Mounting Position: Any
- Making: Type Number
- Lead Free: For RoHS/Lead Free Version



Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load

For capacitive load derate current by 20%

Type Number	SYMBOL	P600A	P600B	P600D	P600G	P600J	P600K	P60M	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Average Rectified Output Current (Note 1) @ $T_L=100^\circ C$	IF(AV)	6.0							A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	200							A
I^2t Rating for Fusing ($t < 8.3ms$)	I^2t	166							A ² s
Forward Voltage @IF=6.0A	V_{FM}	1.1							V
Peak Reverse Current @ $T_A=25^\circ C$	I_R	5.0							uA
At Rated DC Blocking Voltage @ $T_A=125^\circ C$		100							
Typical Junction Capacitance (Note 2)	C_J	90							pF
Typical Thermal Resistance Junction to Ambient(Note 1)	$R_{\theta JA}$	35							°C/W
Operating Temperature Range	T_J	-55 to +150							°C
Storage Temperature Range	T_{STG}	-55 to +150							°C

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

DEVICE CHARACTERISTICS

P600A THRU P600M

FIG. 1 – FORWARD CURRENT DERATING CURVE

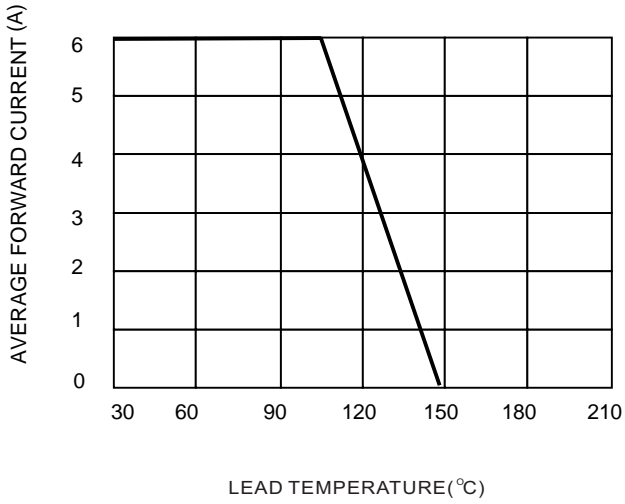


FIG.2-TYPICAL FORWARD CHARACTERISTICS

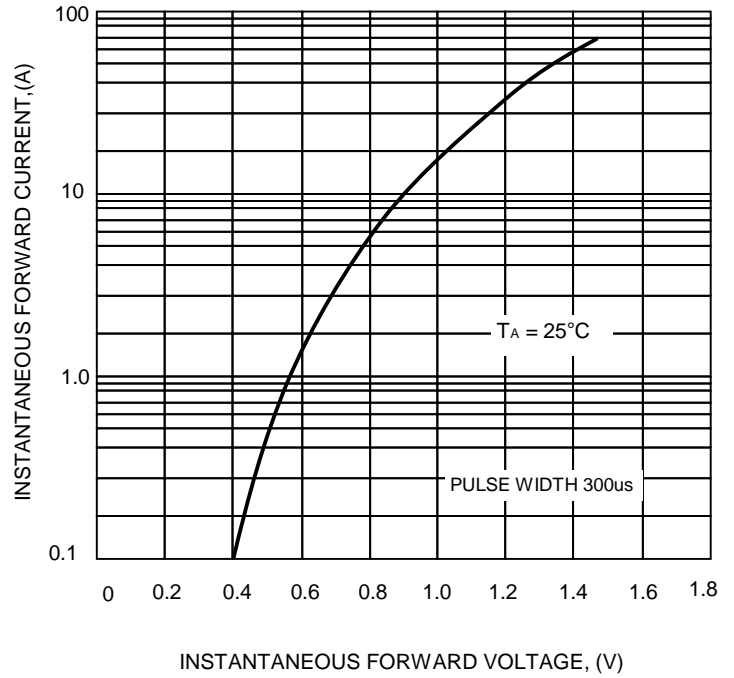


FIG. 3 – MAXIMUM NON-REPETITIVE SURGE CURRENT

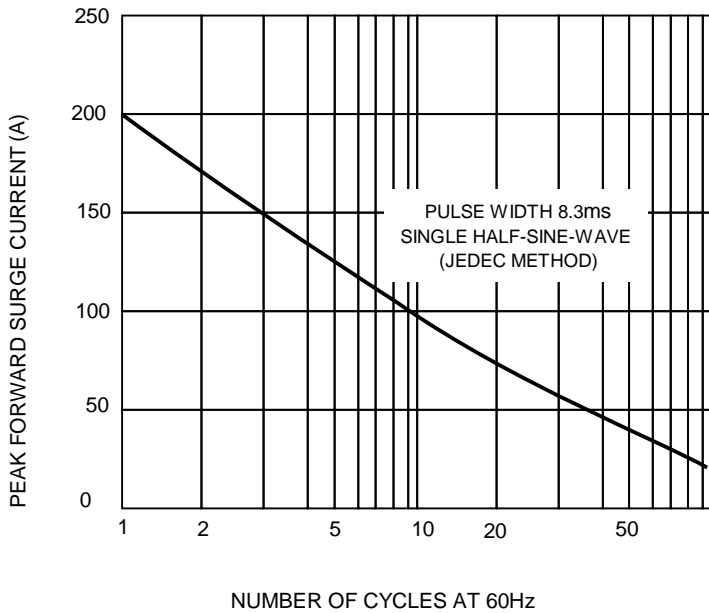


FIG.4 – TYPICAL JUNCTION CAPACITANCE

