

P600AGS - P600MGS

GLASS PASSIVATED JUNCTION SILICON RECTIFIERS

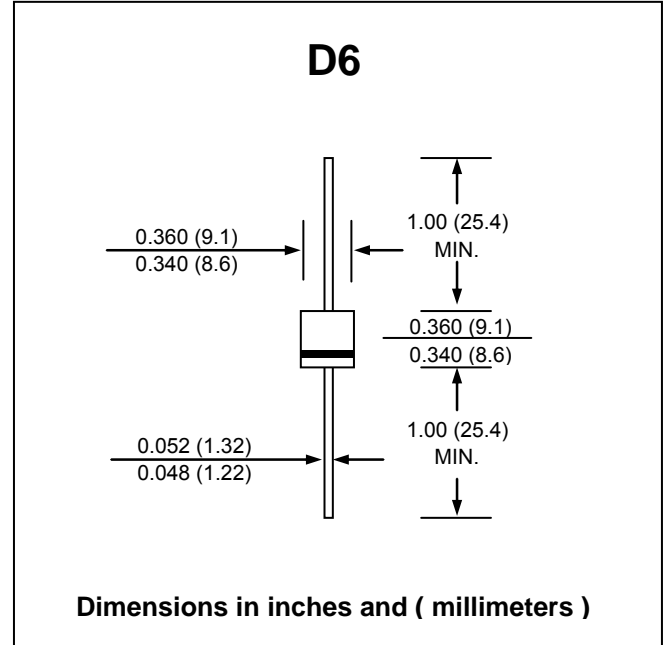
PRV : 50 - 1000 Volts
Io : 6.0 Amperes

FEATURES :

- * Glass passivated chip
- * High current capability, High reliability
- * High surge current capability
- * Low reverse current
- * Low forward voltage drop
- * **Pb / RoHS Free**

MECHANICAL DATA :

- * Case : Void-free molded plastic body
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 2.1 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specific.

RATING	SYMBOL	P600 AGS	P600 BGS	P600 DGS	P600 GGS	P600 JGS	P600 KGS	P600 MGS	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	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
Maximum Average Forward Current 0.375"(9.5mm) Lead Length Ta = 50 °C	$I_{F(AV)}$	6.0							A
Peak Forward Surge Current 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method)	I_{FSM}	400							A
Maximum Instantaneous Forward Voltage at $I_F = 6 A$	V_F	1.0							V
Maximum DC Reverse Current at rated DC Blocking Voltage Tj = 25 °C	I_R	25							μA
Max. Thermal resistance junction to ambient air ⁽¹⁾	$R_{\theta JA}$	20							K/W
Max. Thermal resistance junction to leads	$R_{\theta JL}$	4							K/W
Junction Temperature Range	T_J	- 50 to + 200							°C
Storage Temperature Range	T_{STG}	- 50 to + 200							°C

Notes :

- (1) If leads are kept at ambient temperature at a distance of 10 mm from case
- (2) Suffix "S" will not be marked on the diode.

RATING AND CHARACTERISTIC CURVES (P600AGS - P600MGS)

FIG.1 - MAXIMUM FORWARD CURRENT DERATING CURRENT

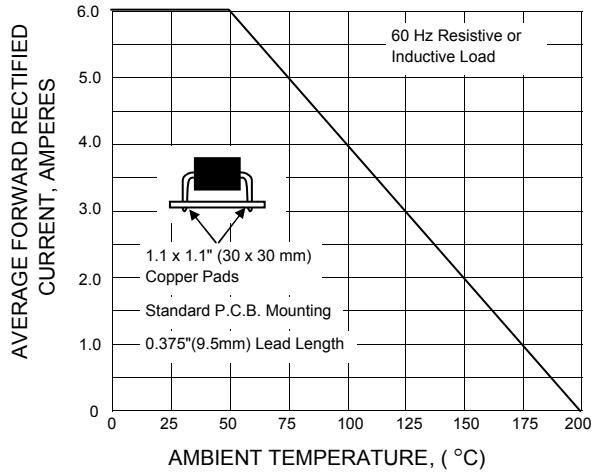


FIG.2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

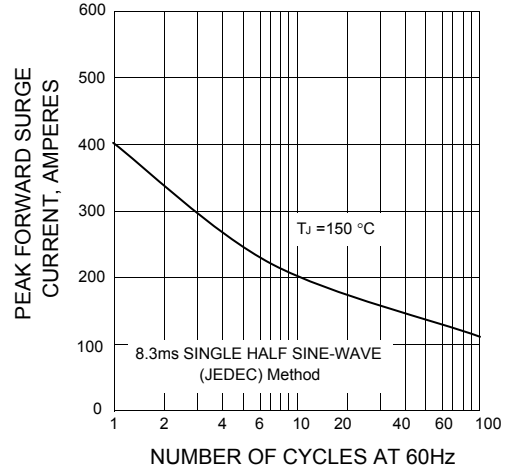


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

