WEJ®

RoHS

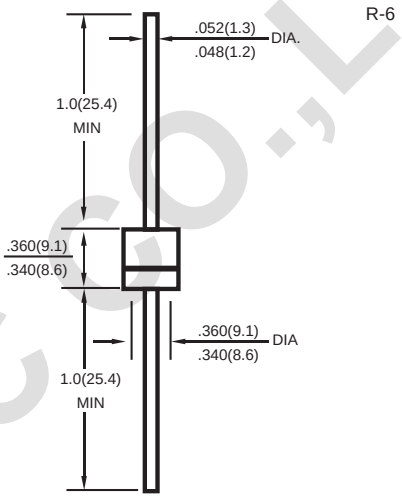
6A05G-6A10G

GLASS PASSIVATED RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts
CURRENT 6.0 Amperes

FEATURES

- Glass passivated chip junction
- Low forward voltage drop
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 260°C/10 seconds/0.375″(9.5mm)lead length at 5 lbs (2,3kg) tension



Dimensions in inches and (millimeters)

MECHANICAL DATA

- **Case:**Transfer molded plastic
- **Epoxy:**UL94V-0 rate flame retardant
- **Polarity:**Color band denotes cathode end
- **Lead:**Plated axial lead ,solderable per MIL-STD-202E method 208c
- **Mounting position:**Any
- **Weight:**0.070 ounce,2.0 grams

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%.

		SYMBOLS	6A05G	6A1G	6A2G	6A4G	6A6G	6A8G	6A10G	UNITS
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current 0.375″(9.5mm) lead length at T_A=75°C		$I_{(AV)}$	6.0							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		I_{FSM}	300							Amps
Maximum Instantaneous Forward Voltage at 6.0A		V_F	1.1							Volts
Maximum DC Reverse Current at rated DC blocking voltage	T_A=25°C	I_R	5.0							μAmps
	T_A=125°C		50							mAmps
Maximum Full Load Reverse Current,full cycle average 0.375″(9.5mm) lead length at T_L=75°C		$I_{R(AV)}$	50							mAmps
Typical Junction Capacitance(NOTE1)		C_J	90							pF
Typical Thermal Resistance(NOTE2)		$R_{\theta JA}$	10							°C/W
Operating and Storage Temperature Range		T_J,T_{STG}	-65A to +175							°C

NOTES:
1.Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.
2.Thermal Resistance from Junction to Ambient at 0.375″(9.5mm) lead length,P.C.board mounted.

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FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

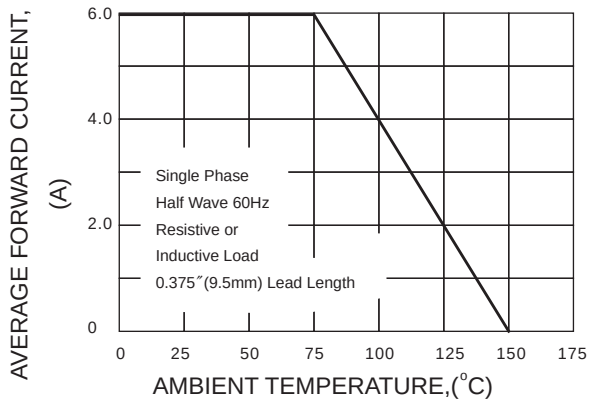

FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

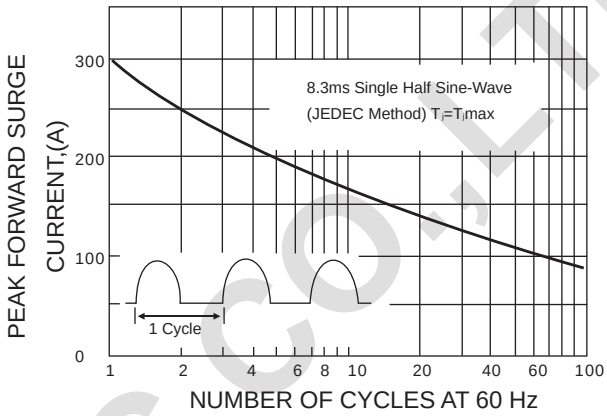

FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

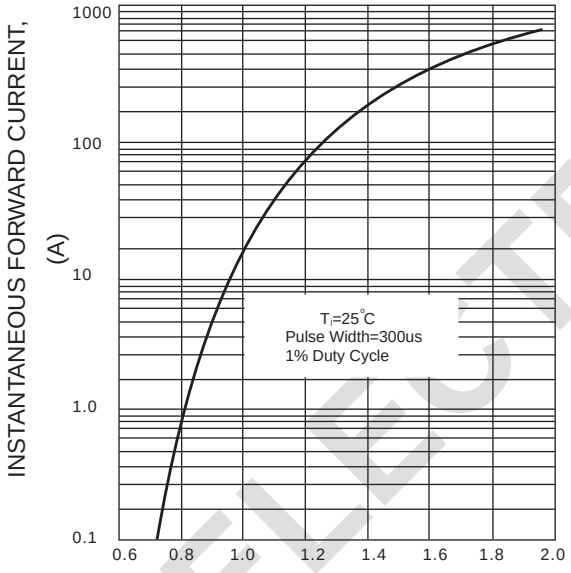

FIG.4-TYPICAL REVERSE CHARACTERISTICS

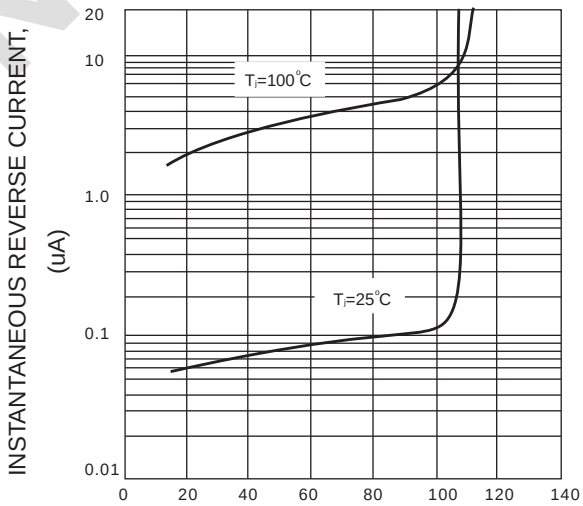

FIG.5-TYPICAL JUNCTION CAPACITANCE

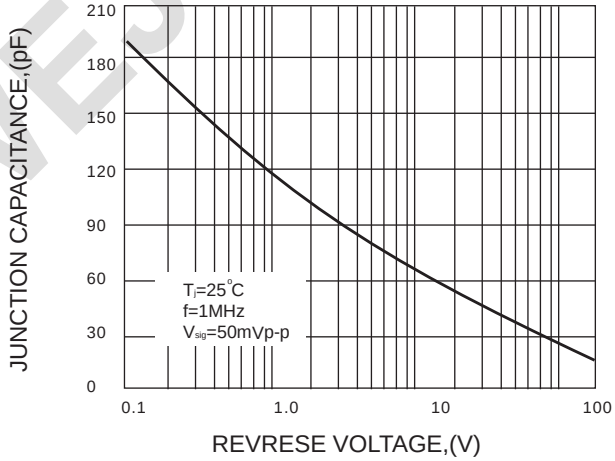

FIG.6-TYPICAL THERMAL RESISTANCE VS LEAD LENGTH