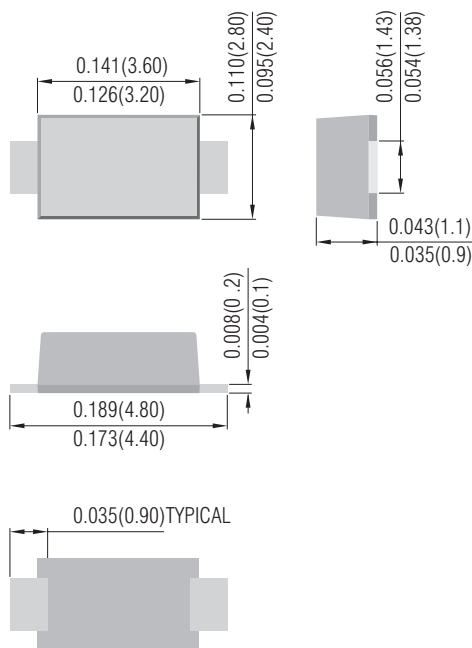


Features

- Plastic package Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Easy pick and place
- Low Forward Drop
- High temperature soldering: 260°C/10 seconds at terminals

SMAF

Unit: inch(mm)



Mechanical Data

- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Case: SMAF molded plastic
- Polarity: Indicated by cathode band
- Standard packaging: 12mm tape (EIA-481)
- Weight: 0.0017 ounce, 0.037 gram

Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Symbol	G1A	G1B	G1D	G1G	G1J	G1K	G1M	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 rectified current, at $T_L=75^\circ\text{C}$	$I(AV)$	1.0							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	3							A
Maximum instantaneous forward voltage @1.0A	V_F	1.1							V
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=125°C	I_R	5.0 100							uA
Typical junction capacitance (Note 1)	C_J	12							pF
Maximum thermal resistance (Note 2) $R_{\theta JA}$	$R_{\theta JA}$	75							°C/W
Operating and storage temperature range	T_J, T_{STG}	-55 to +150							°C

Note:

- Measured at 1MHz and applied $V_r=4.0$ volts.
- 8.0mm² (0.013mm thick) land areas.



1.0A GPP SURFACE MOUNT RECTIFIER

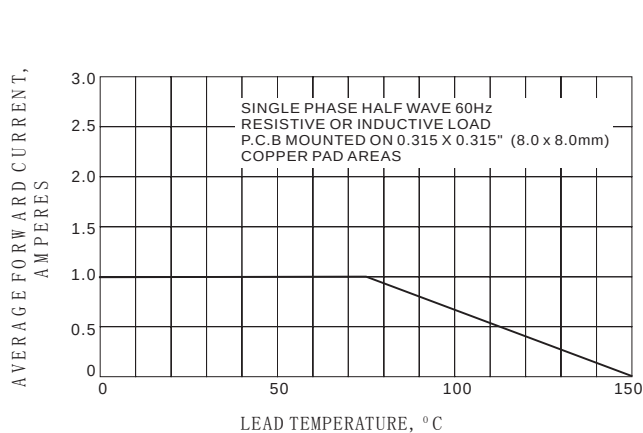


Fig. 1-FORWARD CURRENT DERATING CURVE

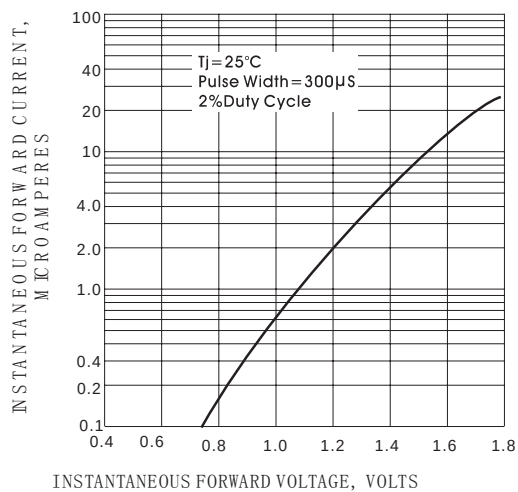


Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

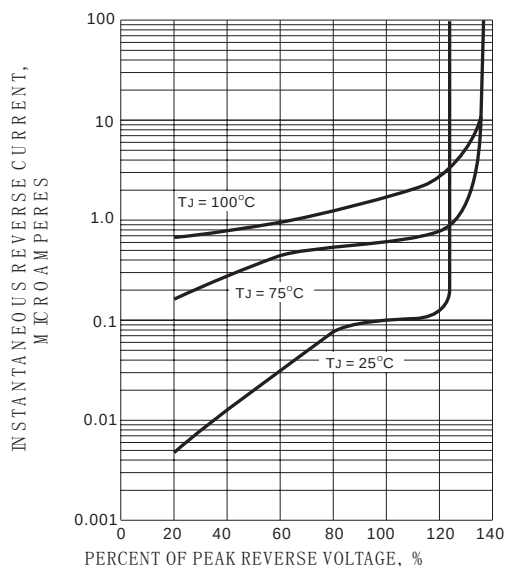


Fig. 3-TYPICAL REVERSE CHARACTERISTICS

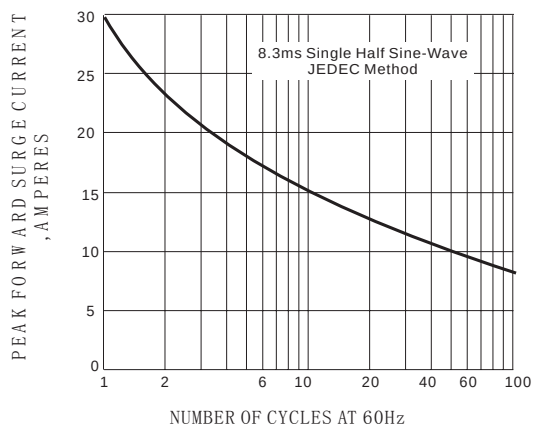


Fig. 4-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

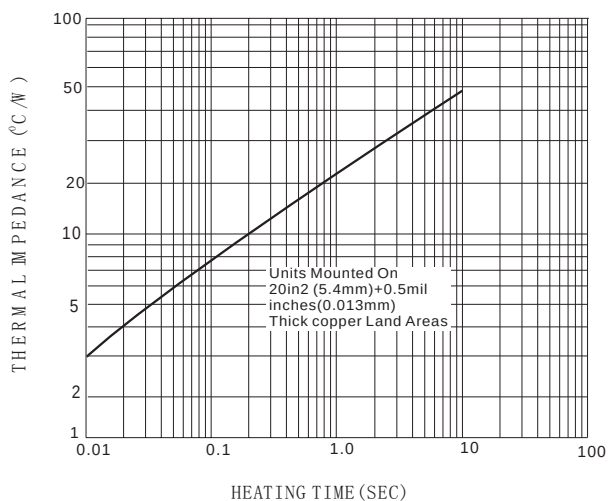


Fig. 5-TRANSIENT THERMAL IMPEDANCE

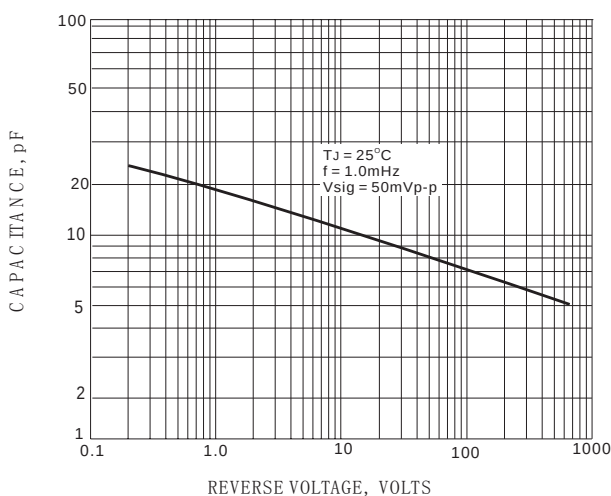


Fig. 6-TYPICAL JUNCTION CAPACITANCE