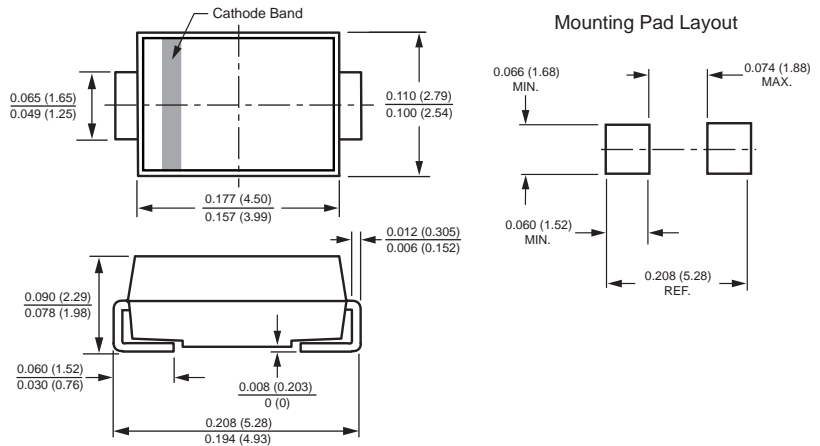


FEATURES

- Voltage Range 50 to 1000 Volts
- Available in glass passivated chip junction with G suffix
- Very Fast Recovery
- Low forward voltage drop
- High surge current capability
- Epitaxial construction
- High temperature soldering : 260°C/10 seconds at terminals

MECHANICAL DATA

- Molded plastic body (UL 94 V-0 Rated)
- Solder plated terminals
- Polarity: Indicated by cathode band
- Packaging: 12mm tape EIA STD RS-481
- Weight: 0.064 gram



SMA (DO-214AC)
Dimensions in mm

MAXIMUM RATINGS & 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%

Parameter	Symbol	US1A	US1B	US1D	US1F	US1G	US1J	US1K	US1M	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current @ $T_a = 50^\circ\text{C}$	$I_{F(AV)}$	1.0								A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	30								A
Maximum Instantaneous Forward Voltage @1.0A	V_F	1.0		1.3		1.7				V
Maximum DC Reverse Current @ $T_A = 25^\circ\text{C}$ At rated DC blocking voltage @ $T_A = 125^\circ\text{C}$	I_R	5.0				50.0				A
Reverse Recovery Time (Note 1.)	t_{rr}	50				75				nS
Junction Thermal Resistance (Note 2.)	R_{JL} R_{JT}	25				55				$^\circ\text{C} / \text{W}$
Operating Temperature Range	T_J	-55 to +125 / -55 to +175 for (G)								$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150								$^\circ\text{C}$

NOTE: 1. Reverse Recovery Test conditions: $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{RR} = 0.25\text{A}$.
2. Measured on P.C . Board with 0.2x0.2”(5.0x5.0mm) Copper Pad Areas .

RATING & CHARACTERISTIC CURVES

FIG.1-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

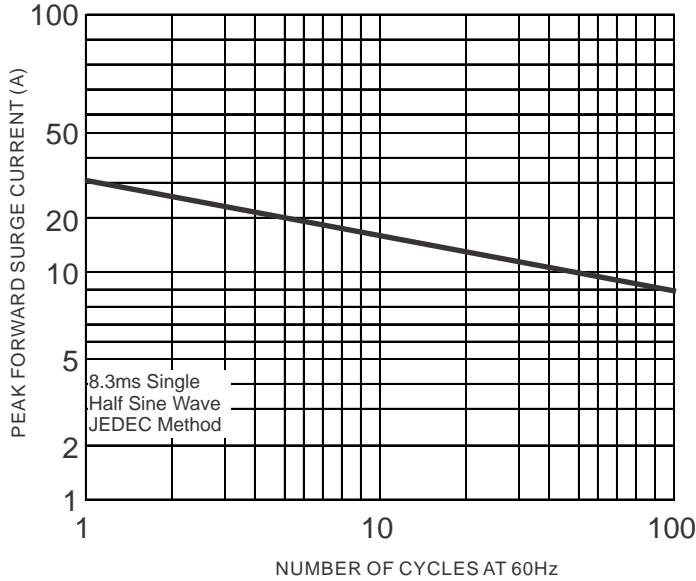


FIG.2-MAXIMUM CURRENT DERATING CURVE

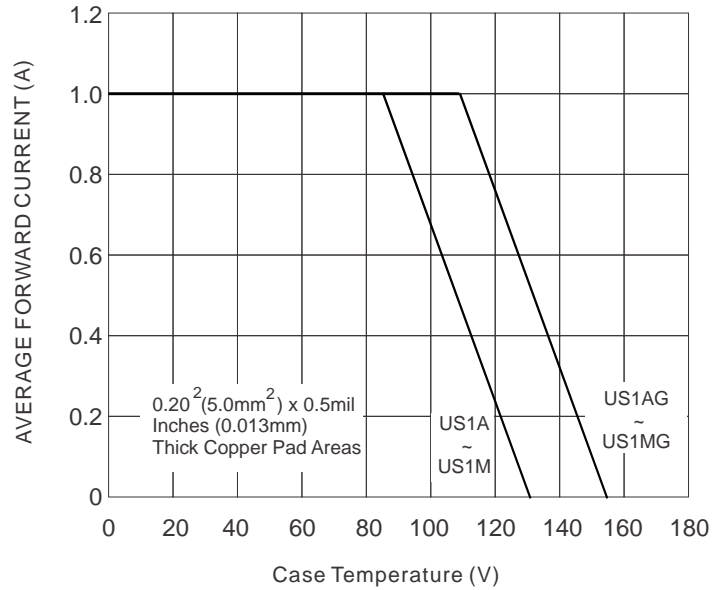


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

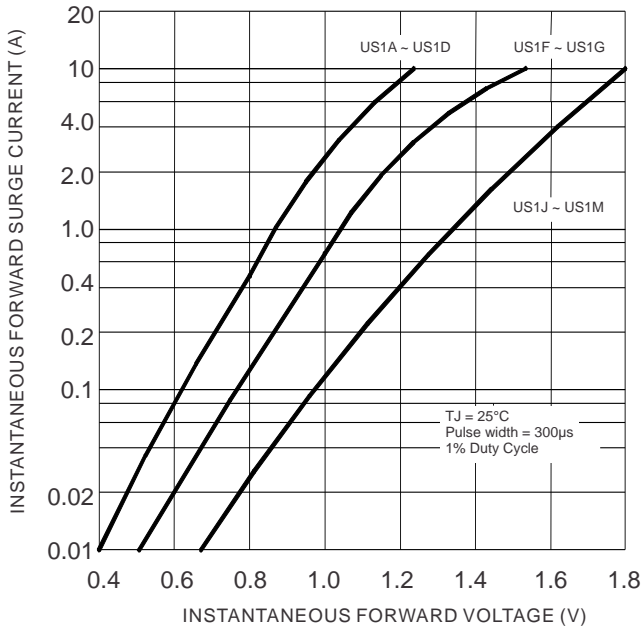


FIG.4-TYPICAL REVERSE CHARACTERISTICS

