

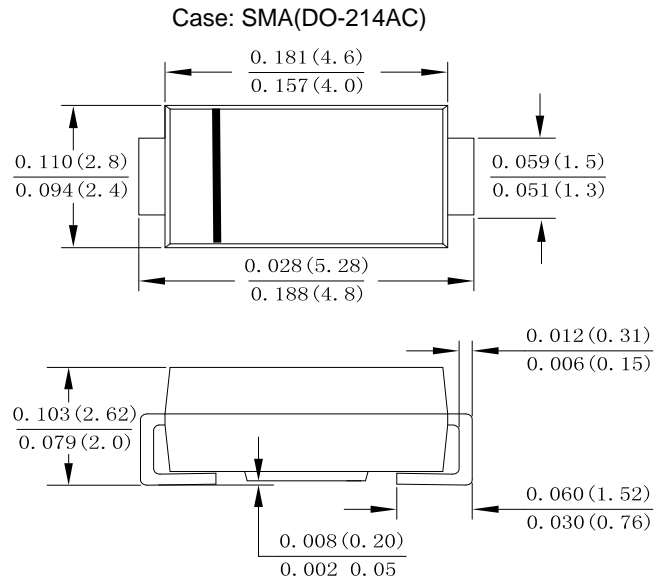


### Features

- Glass Passivated Die Construction
- Low forward voltage drop
- High current capability
- High reliability
- Metalsilicon junction, majority carrier conduction
- Plastic Case Material has UL Flammability Classification Rating 94V-0

### Mechanical Data

- Case: Molded plastic SMA
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026 guaranteed
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Making: Type Number



Dimensions in inches and (millimeters)

### 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 (Note 1)	SYMBOL	GS1VU	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	2000	V
Maximum RMS Voltage	$V_{RMS}$	1400	V
Maximum DC Blocking Voltage	$V_{DC}$	2000	V
Average Rectified Output Current @ $T_L = 100^\circ\text{C}$	$I_{F(AV)}$	1.0	A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	35	A
Forward Voltage @ $I_F = 1.0\text{A}$	$V_{FM}$	1.2	V
Peak Reverse Current @ $T_A = 25^\circ\text{C}$	$I_R$	5.0	$\mu\text{A}$
At Rated DC Blocking Voltage @ $T_A = 125^\circ\text{C}$		50	
$I^2t$ Rating for fusing ( $t < 8.3\text{ms}$ )	$I^2t$	5.08	$\text{A}^2\text{s}$
Typical Junction Capacitance (Note 2)	$C_J$	5.5	pF
Typical Thermal Resistance Junction to Ambient (Note 3)	$R_{\theta JA}$	110	$^\circ\text{C}/\text{W}$
Operating Temperature Range	$T_J$	-55 to +150	$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55 to +150	$^\circ\text{C}$

Note:

1. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C
2. Device mounted on FR-4 substrate, 1"\*1", 2oz, single-sided, PC boards with 0.1"\*0.15" copper pad.



FIG.1 MAXIMUM AVERAGE FORWARD CURRENT DERATING

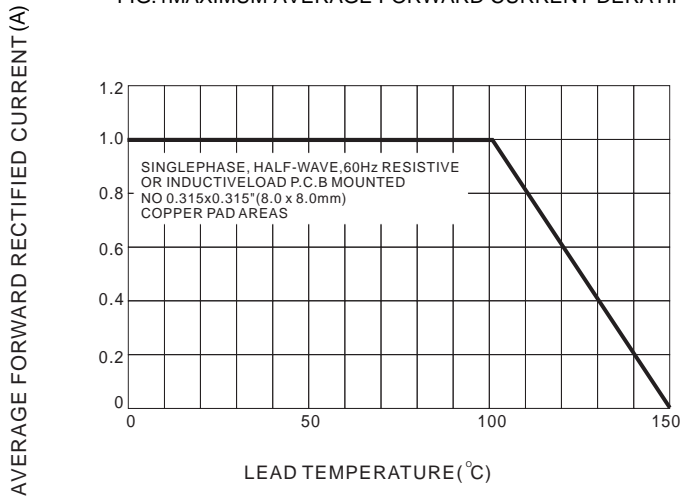


FIG.2-TYPICAL FORWARD CHARACTERISTICS

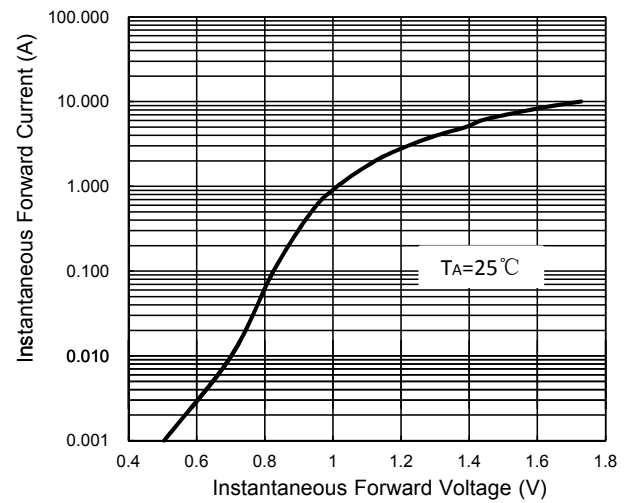


FIG.3 MAXIMUM NON-REPEITIVE SURGE CURRENT

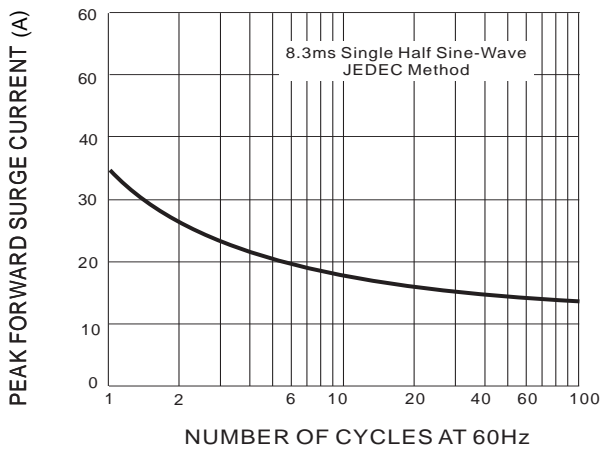


Fig. 4 Typical Reverse Characteristics (per element)

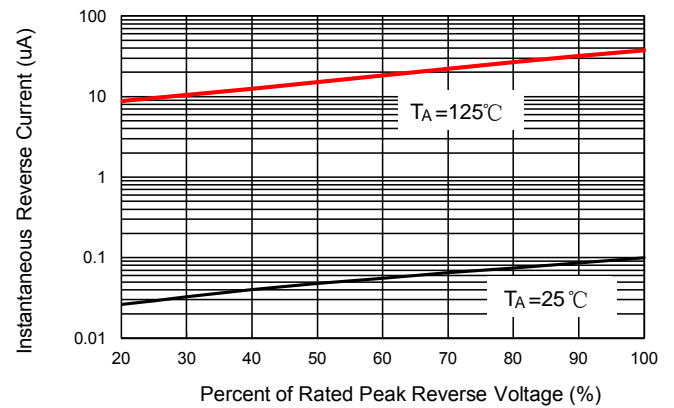
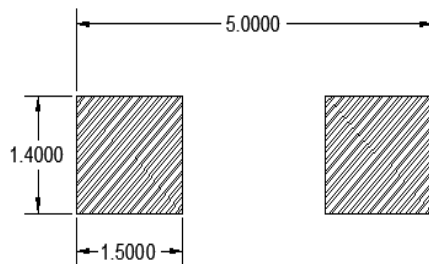


FIG.5 MOUNTING PAD LAYOUT





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