



**SURFACE MOUNT GLASS PASSIVATED RECTIFIERS**

**FEATURES:**

- Ideal for surface mount applications
- Easy pick and place
- Built-in strain relief
- Glass passivated Chip

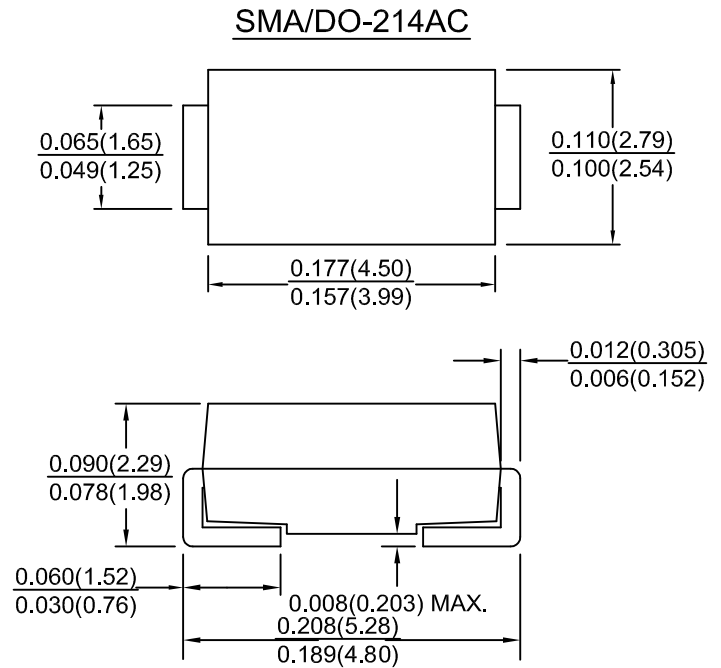
**MECHANICAL DATA**

Case : UL 94V-0 recognized flame retardant epoxy

Terminals : Plated terminals, solderable per MIL-STD-202, Method 208

Polarity : Colored band and logo on body denotes cathode

Weight : 0.063 grams, 0.0026 ounce



Dimensions in inches and (millimeters)

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Rating at 25° C ambient temp. unless otherwise specified.

Single phase, half sine wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20 %.

Characteristic	Symbol	GS1A	GS1B	GS1D	GS1G	GS1J	GS1K	GS1M	Units
Maximum recurrent peak reverse voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	520	700	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current at T <sub>L</sub> =125° C	I <sub>O</sub>	1.0							Amps
Peak forward surge current single sine-wave on rated load(JEDEC Method)	I <sub>FSM</sub>	30.0							Amps
Maximum instantaneous forward voltage drop at 1.0 A	V <sub>F</sub>	1.1							Volts
Maximum DC reverse current at rated DC blocking voltage	I <sub>R</sub>	5.0 50.0							μ A
Typical thermal resistance	R <sub>th-JA</sub>	80							°C/W
	R <sub>th-JL</sub>	26							
Typical junction capacitance	C <sub>j</sub>	15.0							pF
Operating junction temperature range	T <sub>j</sub>	-65 to +175							°C
Storage temperature range	T <sub>stg</sub>	-65 to +175							°C



RATING AND CHARACTERISTIC CURVES

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIER CURRENT

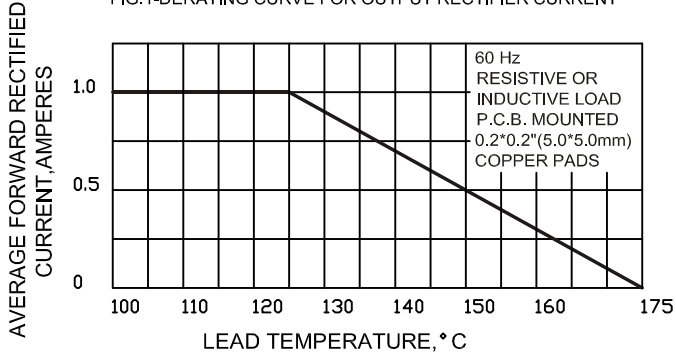


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

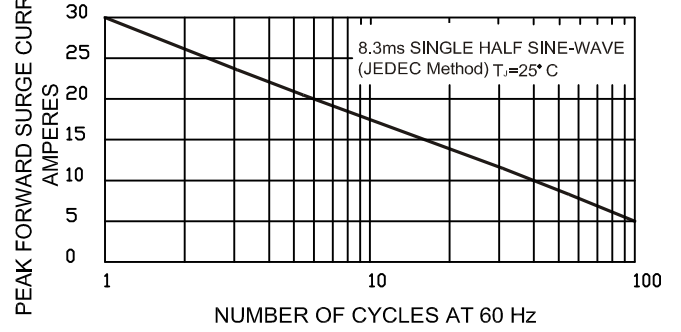


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

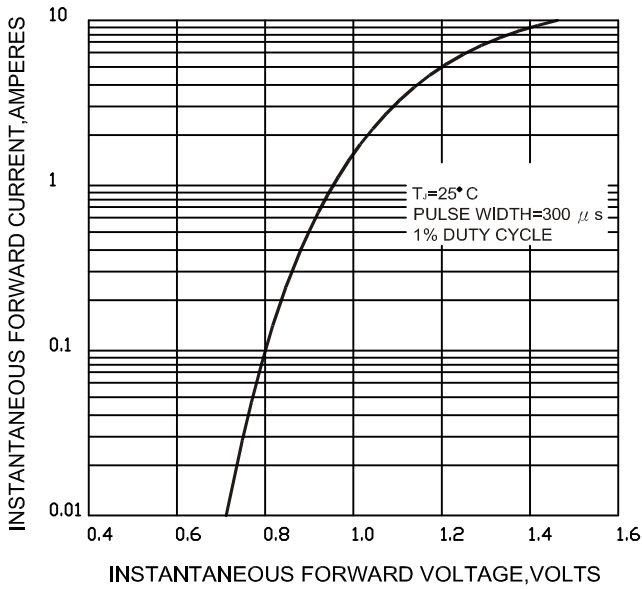


FIG.4-TYPICAL REVERSE CHARACTERISTICS

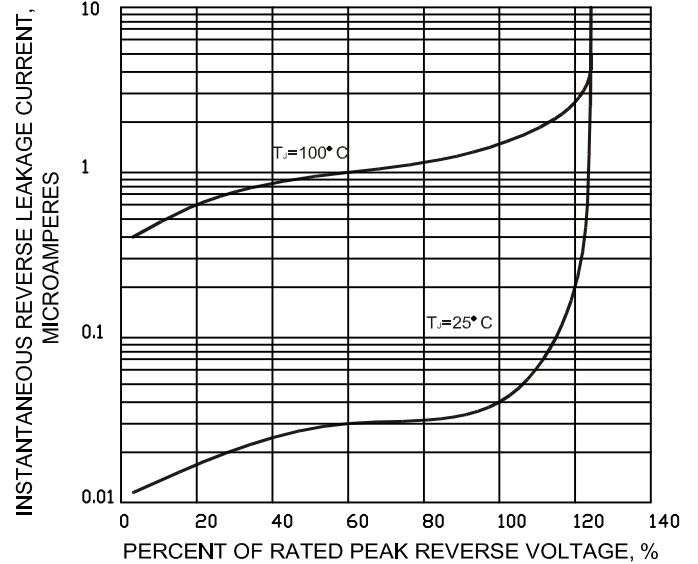
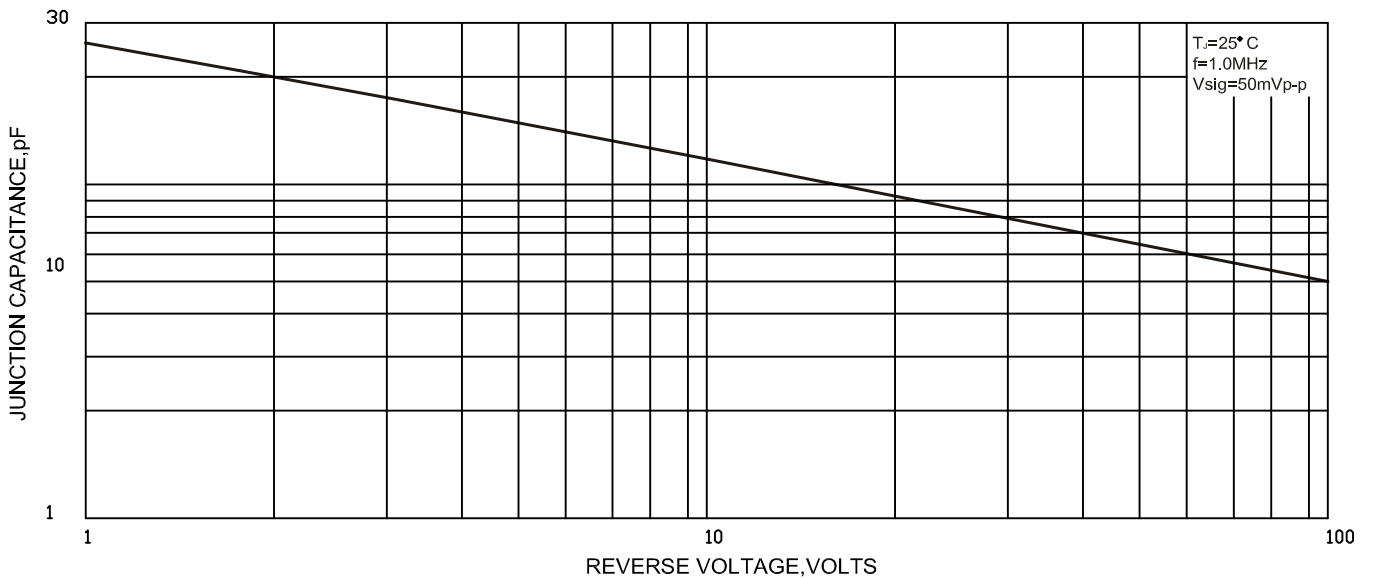


FIG.5-TYPICAL JUNCTION CAPACITANCE





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