

# M1 THRU M7

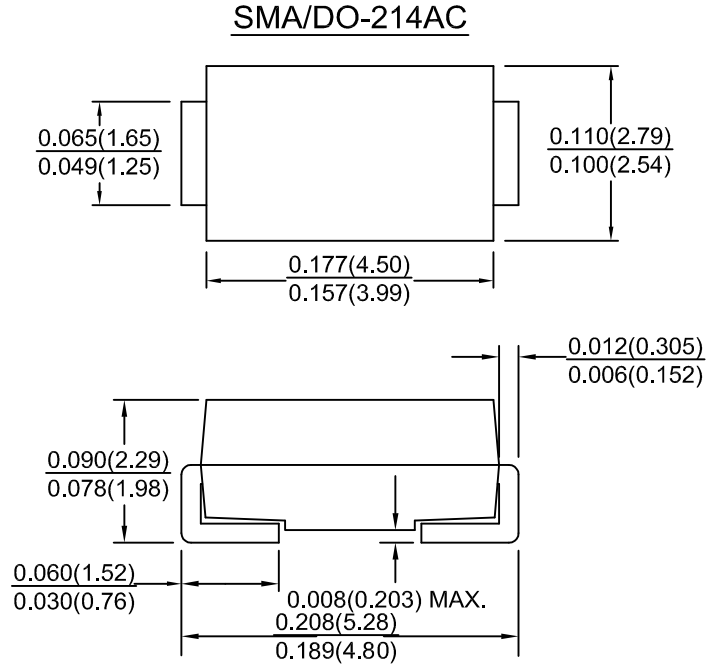
## SURFACE MOUNT GLASS PASSIVATED RECTIFIERS

### FEATURES:

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

### MECHANICAL DATA

Case : Molded plastic use UL 94V-0 recognized flame retardant epoxy  
 Terminals : Plated terminals,solderable per MIL-STD-202, Method 208  
 Polarity : White color band and logo on body denotes cathode  
 Mounting Position : Any  
 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	M1	M2	M3	M4	M5	M6	M7	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 TL=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> R <sub>th-JL</sub>	80 26							° C/W
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

# RATINGS AND CHARACTERISTIC CURVES M1 THRU M7

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIER CURRENT

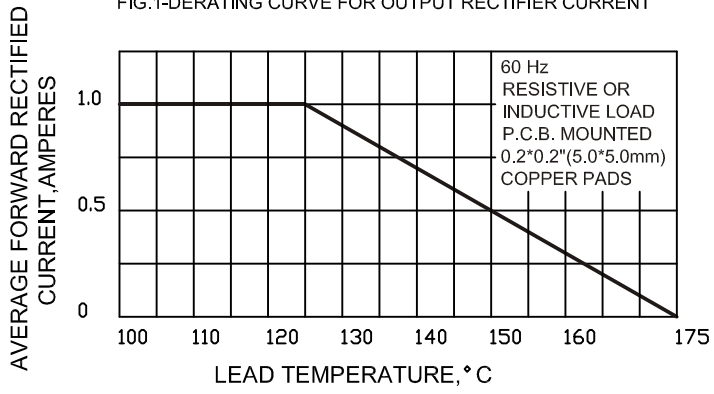


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT.

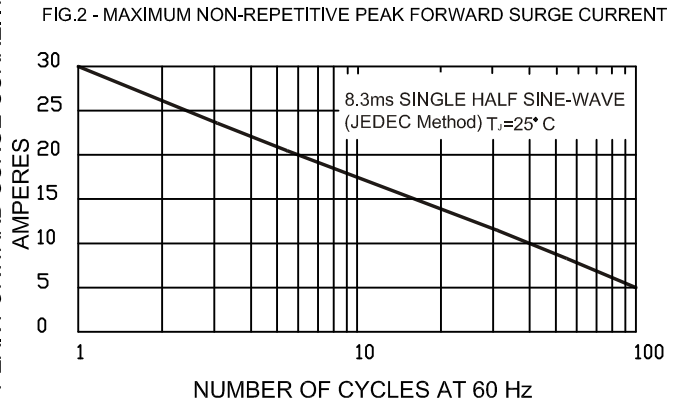


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

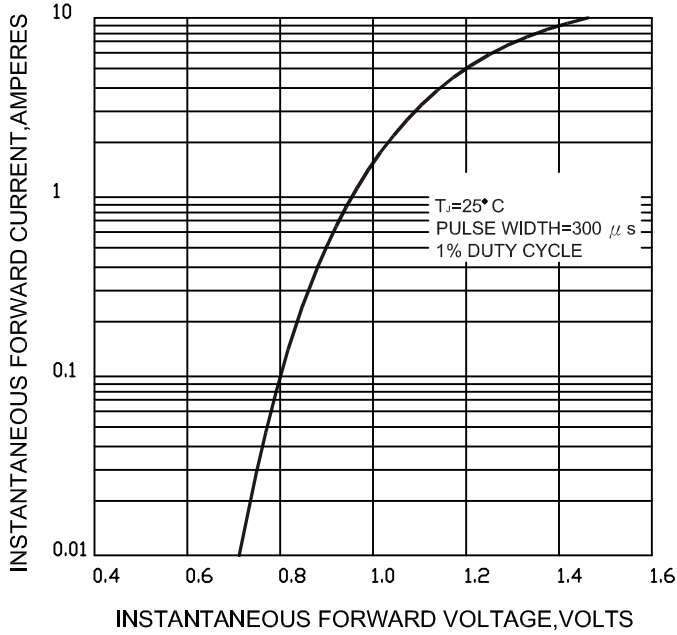


FIG.4-TYPICAL REVERSE CHARACTERISTICS

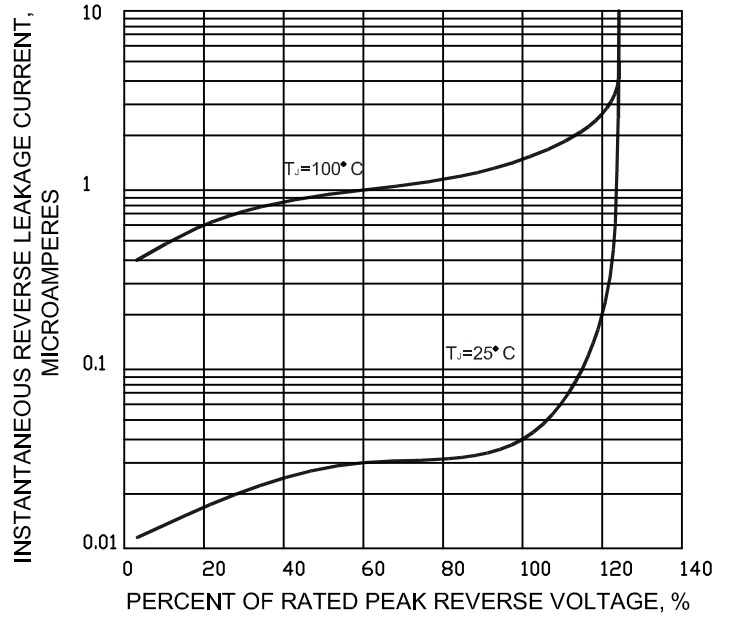
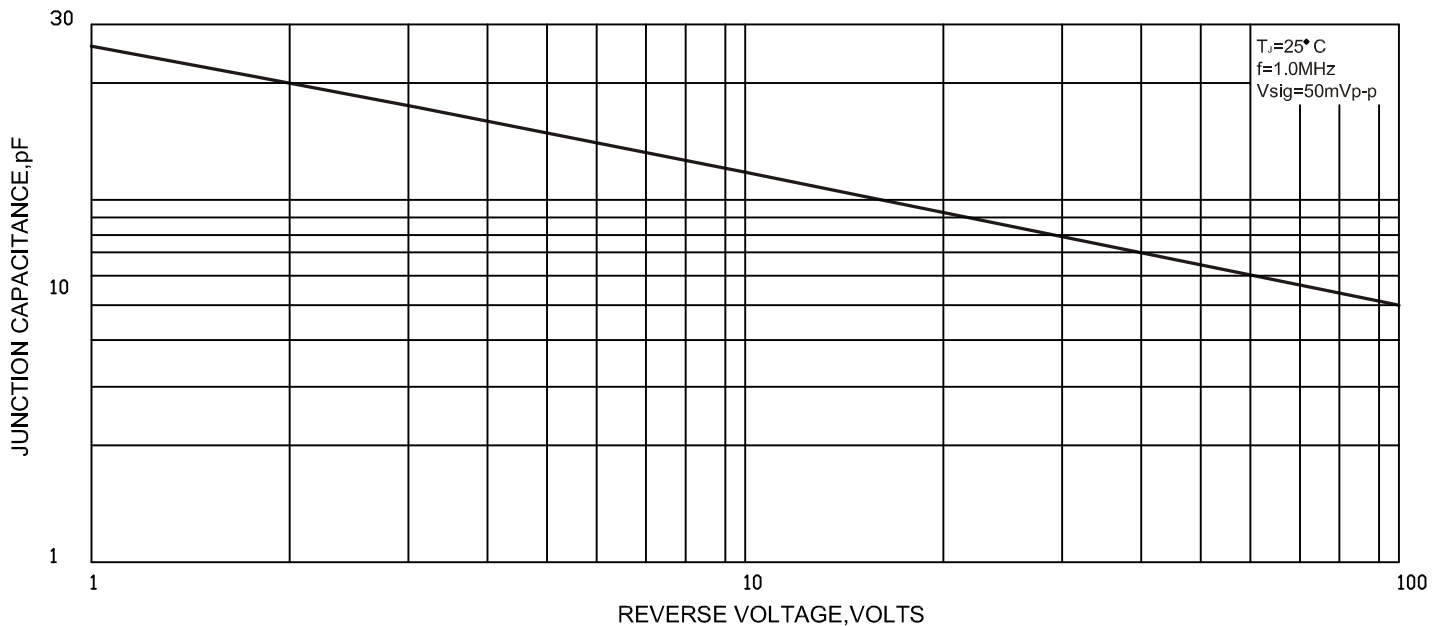


FIG.5-TYPICAL JUNCTION CAPACITANCE



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