SMA22 THRU SMA26

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE:20 TO 60V **CURRENT: 2.0A**

GULF SEMI

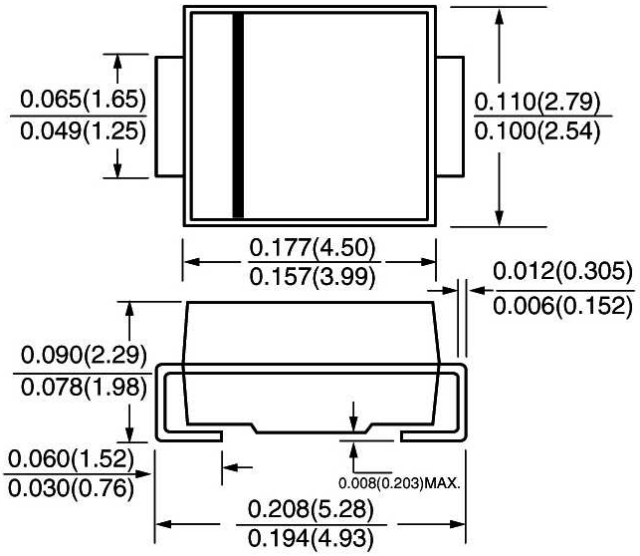
FEATURE

Plastic package has Underwriters Laboratory Flammability Classification 94V-0
For surface mounted applications
Low profile package
Built-in strain relief
Low power loss, high efficiency
High current capability, low forward voltage drop
High surge capability
For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
Guard ring for over voltage protection
High temperature soldering guaranteed:
250°C /10 seconds at terminals

MECHANICAL DATA

Case: JEDEC SMA/DO-214AC molded plastic body
Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes cathode end
Weight: 0.002 ounce, 0.064 gram

SMA/DO--214AC



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

	SYMBOL	SMA 22	SMA 23	SMA 24	SMA 25	SMA 26	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	20	30	40	50	60	V
Maximum RMS Voltage	Vrms	14	21	28	35	42	V
Maximum DC blocking Voltage	Vdc	20	30	40	50	60	V
Maximum Average Forward Rectified Current 3/8"lead length at T_L =100°C	If(av)	2.0					A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	50.0					A
Maximum Forward Voltage at rated Forward current (Note 1)	Vf	0.5			0.7		V
Maximum DC Reverse Current Ta =25°C	Ir	0.5					mA
at rated DC blocking voltage Ta =100°C		20.0			10.0		
Typical Thermal Resistance (Note 2)	R(ja)	75.0					°C /W
Storage and Operating Temperature	Tstg	-65 to +150					°C

NOTES:

(1) Pulse test: 300μs pulse width, 1% duty cycle
(2) P.C.B. mounted with 0.2 x 0.2?(5.0 x 5.0mm) copper pad areas

[1]

FIG.1 - FORWARD CURRENT DERATING CURVE

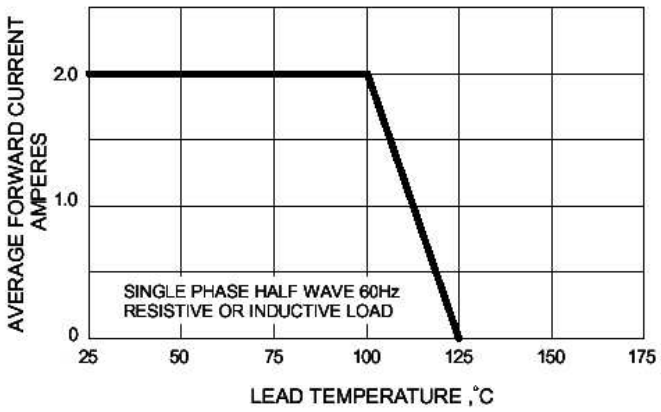


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

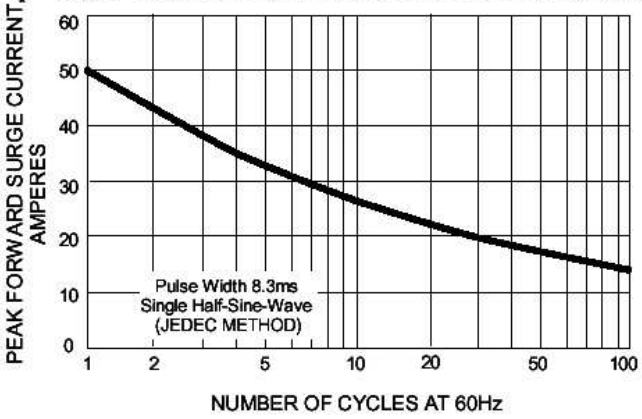


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

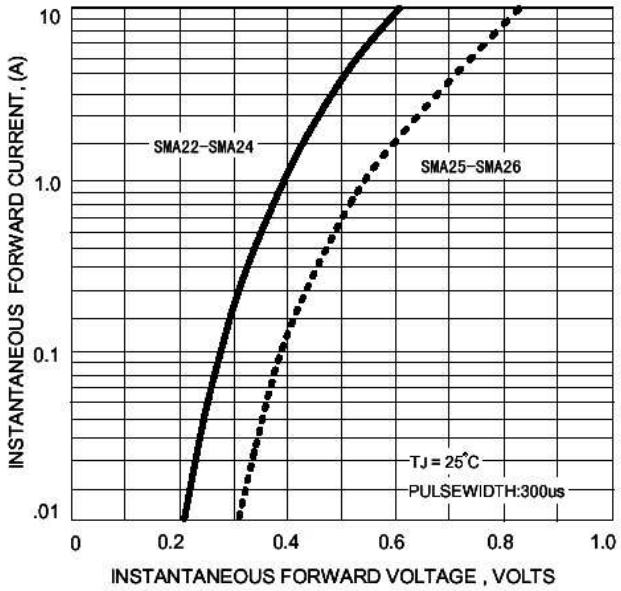


FIG.4 - TYPICAL JUNCTION CAPACITANCE

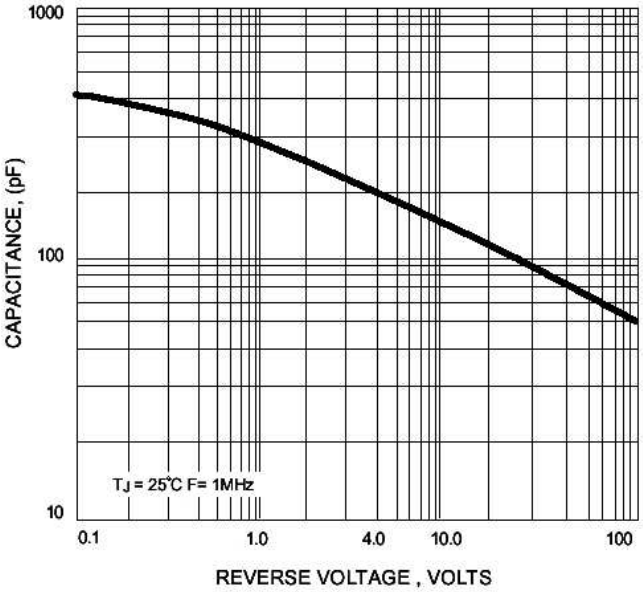
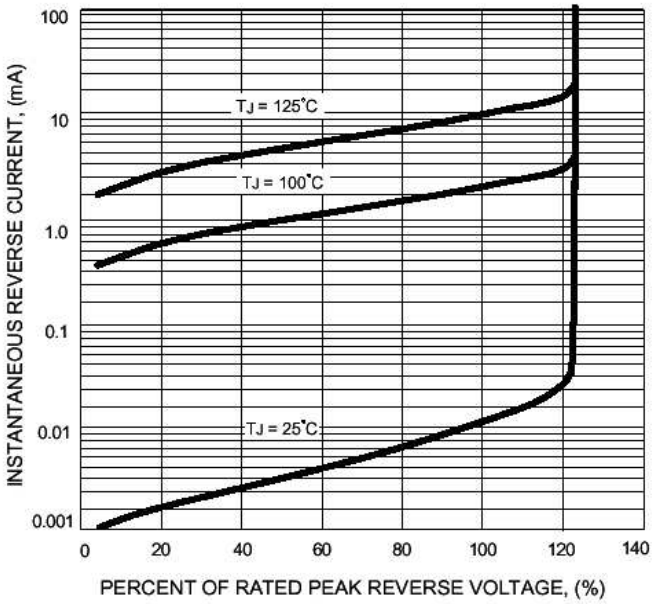


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



[1] Rev.4