

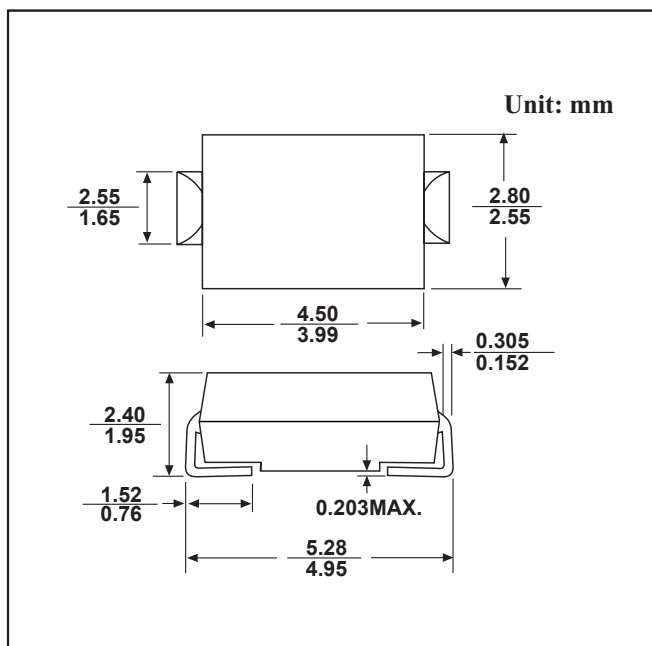
SMA PLASTIC SILICON RECTIFIERS

FEATURES

- The plastic package carries Underwrites Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- For surface mounted applications
- Built-in strain relief,ideal for automated placement
- High temperature soldering guaranteed:260℃/10 seconds at Terminals
- Component in accordance to RoHs 2015/863 and WEEE 2012/19/EU

MECHANICAL DATA

- Case:SMA molded plastic body
- Terminals:Lead solderable per MIL-STD-750,method 2026
- Polarity:Color band denotes cathode end
- Mounting Position:Any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

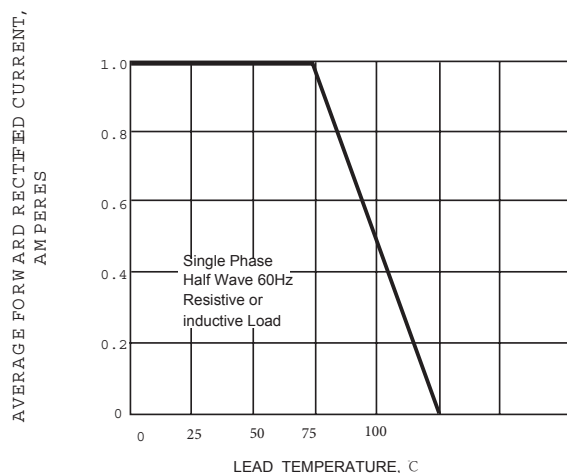
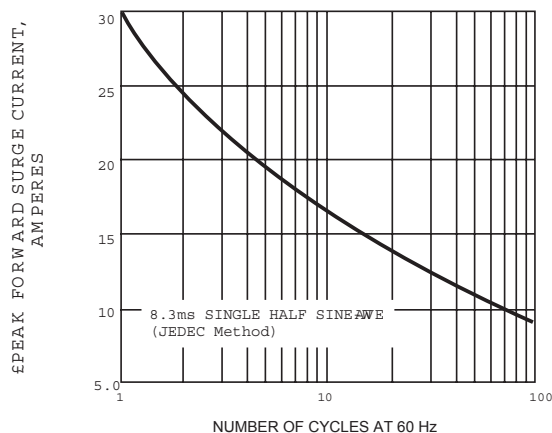
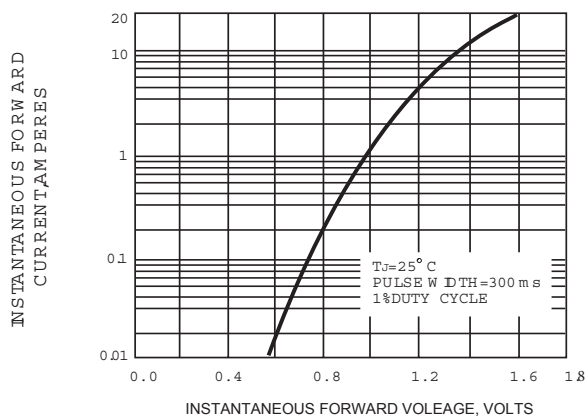
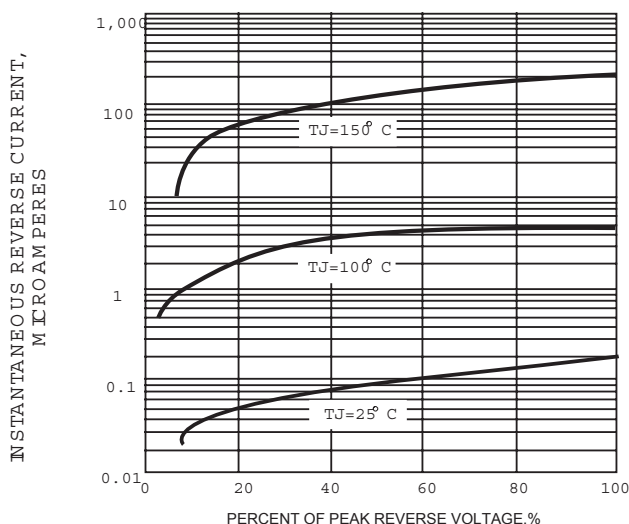
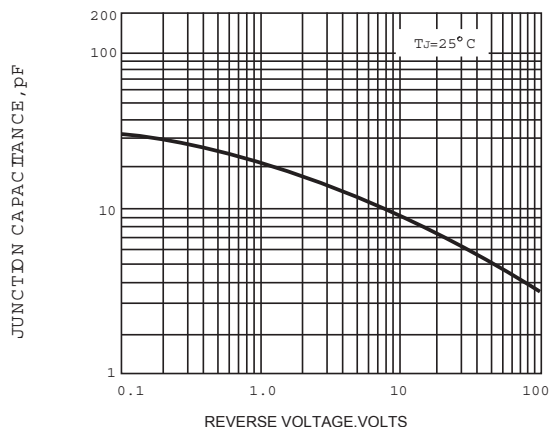
Characteristic		SYMBOLS	S1A	S1B	S1D	S1G	S1J	S1K	S1M	UNITS
Maximum recurrent peak reverse voltage		V _{RRM}	50	100	200	400	600	800	1000	V
Maximum DC blocking voltage		V _{DC}								
Maximum RMS Voltage		V _{R(RMS)}	35	70	140	280	420	560	700	V
Average rectified output current(Note 1)@TA=75℃		I _(AV)	1.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load(JEDECmethod)		I _{FSM}	30.0							A
Maximum instantaneous forward voltage at 1.0A		V _F	1.0							V
Maximum DC reverse current at rated DC blocking voltage	@TA=25℃	I _{RM}	5.0							μA
	@TA=100℃		50.0							
Typical Junction Capacitance(Note 1)		C _J	15							pF
Typical thermal resistance (NOTE 2)		R _{θJA}	85							℃/W
Operating junction and storage temperature range		T _j	-55 to+150							℃

Note:

1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2.Thermal resistance junction to ambient,P.C.B. mounted with 0.2x0.2 "(5.0x5.0mm) copper pad areas

RATINGS AND CHARACTERISTIC CURVES

FIG. 1- FORWARD CURRENT DERATING CURVE

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

FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE
