

SCHOTTKY BARRIER RECTIFIER

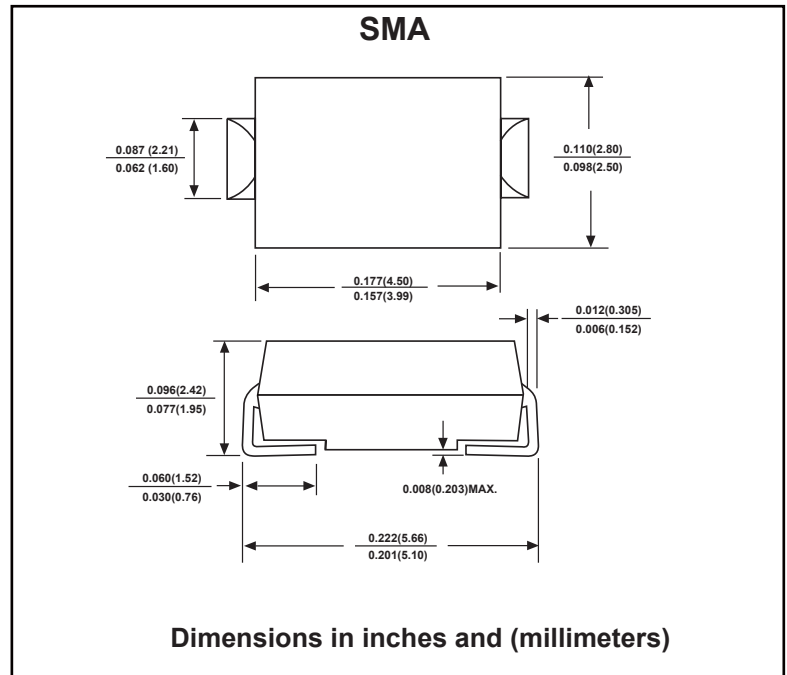
VOLTAGE RANGE: 20--- 200 V CURRENT: 2.0 A

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O Utilizing
- For surface mounted applications
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- Built-in strain relief, ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed: 260 °C/10 seconds at terminals
- Component in accordance to RoHS 2002/95/Ec and WEEE 2002/96/EC

MECHANICAL DATA

- Case: SMA molded plastic body
- Polarity: Color band denotes cathode end
- Mounting Position: Any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted) Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate by 20%.

TYPE NUMBER		SYMBOL	SS22	SS23	SS24	SS25	SS26	SS28	SS210	SS215	SS220	UNITS
Maximum recurrent peak reverse voltage		V_{RRM}	20	30	40	50	60	80	100	150	200	V
Maximum RMS voltage		V_{RMS}	14	21	28	35	42	56	70	105	140	V
Maximum DC blocking voltage		V_{DC}	20	30	40	50	60	80	100	150	200	V
Maximum Average Forward rectified Current lead length		$I_{F(AV)}$	2.0									A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load		I_{FSM}	50.0									A
Maximum instantaneous forward voltage at 2.0 A		V_F	0.45	0.55		0.70		0.85			V	
Maximum reverse current at rated DC blocking voltage per diode	@ $T_A=25^\circ\text{C}$	I_R	0.5					0.1			mA	
	@ $T_A=100^\circ\text{C}$		20.0									
Typical Thermal Resistance (Note 2)		$R_{\theta JA}$	88.0						$^\circ\text{C/W}$			
Typical junction capacitance (Note 1)		C_j	250						pF			
Storage Temperature		T_{STG}	- 65 ---- + 150									$^\circ\text{C}$
Operation Junction Temperature		T_j	- 65 ---- + 125									$^\circ\text{C}$

NOTE:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

RATINGS AND CHARACTERISTIC CURVES

FIG. 1- FORWARD CURRENT DERATING CURVE

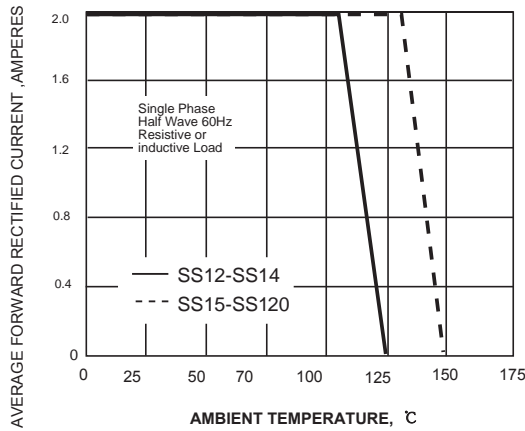


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

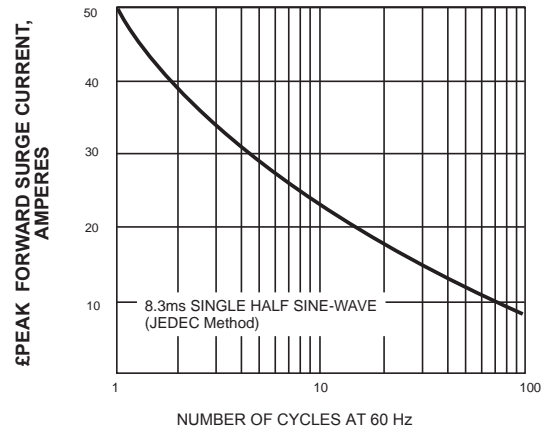


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

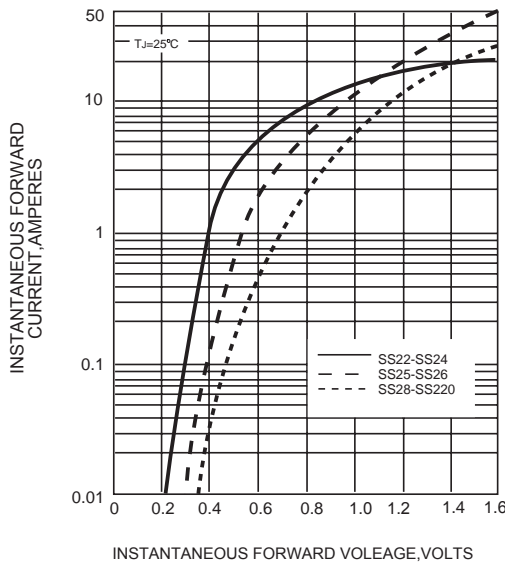


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

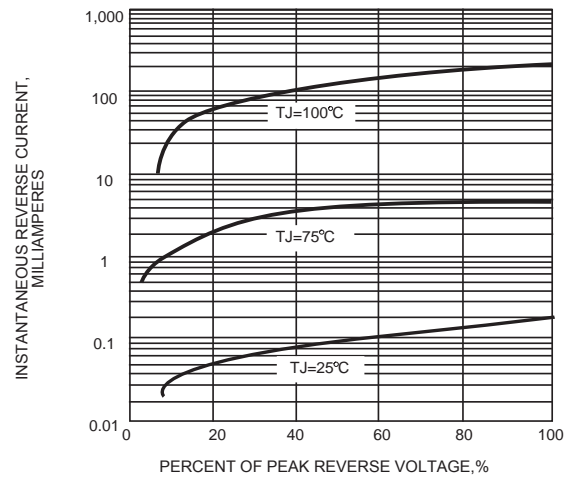


FIG. 5-TYPICAL JUNCTION CAPACITANCE

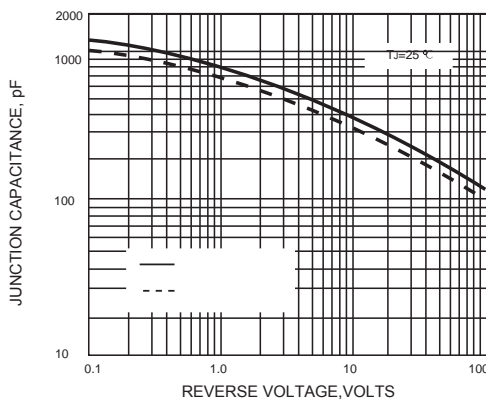


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE

