

## SCHOTTKY BARRIER RECTIFIER

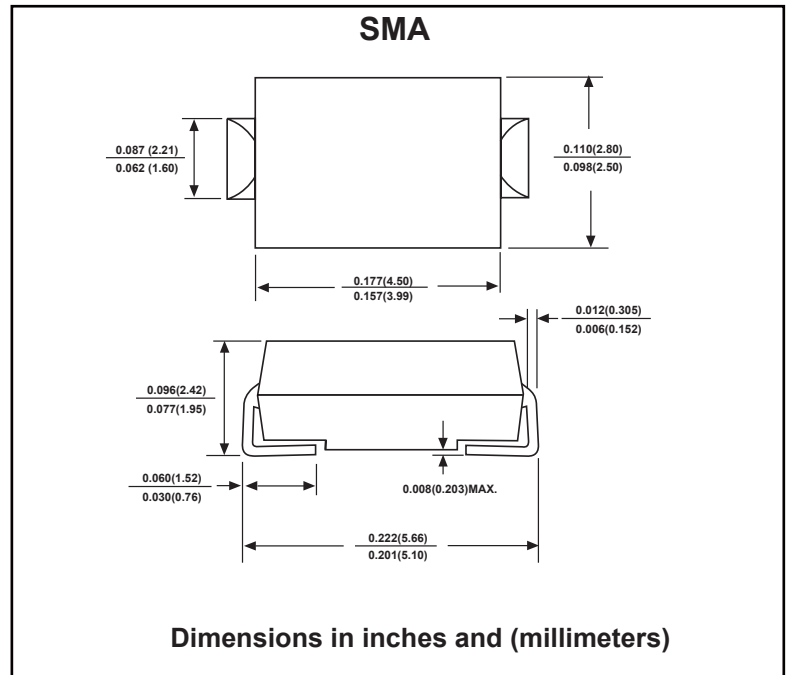
VOLTAGE RANGE: 20--- 200 V CURRENT: 2.0 A

### 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%.

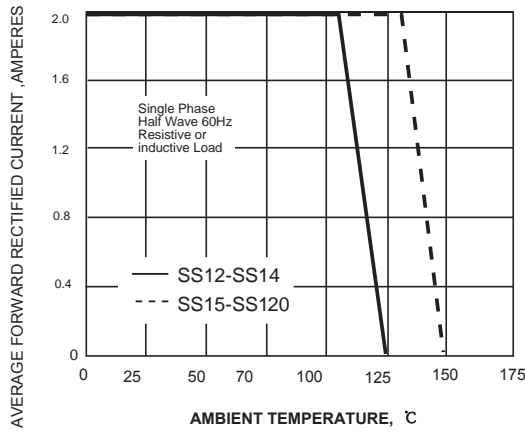
TYPE NUMBER		SYMBOL	SS22	SS23	SS24	SS25	SS26	SS28	SS210	SS215	SS220	UNITS	
Maximum recurrent peak reverse voltage		$V_{RRM}$	20	30	40	50	60	80	100	150	200	V	
Maximum RMS voltage		$V_{RMS}$	14	21	28	35	42	56	70	105	140	V	
Maximum DC blocking voltage		$V_{DC}$	20	30	40	50	60	80	100	150	200	V	
Maximum Average 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	@ $T_A=25^\circ C$	$I_R$	0.5					0.1					mA
	@ $T_A=100^\circ C$		20.0										
Typical Thermal Resistance (Note 2)		$R_{\theta JA}$	88.0									°C/W	
Typical junction capacitance(Note 1)		$C_j$	250									pF	
Storage Temperature		$T_{STG}$	- 65 ---- + 150									°C	
Operation Junction Temperature		$T_j$	- 65 ---- + 125									°C	

#### NOTE:

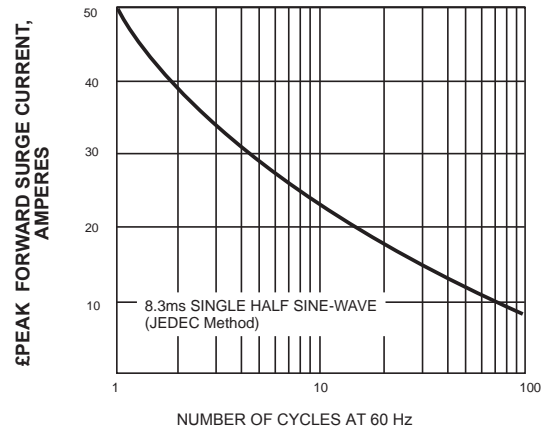
- 1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 2.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

# RATINGS AND CHARACTERISTIC CURVES

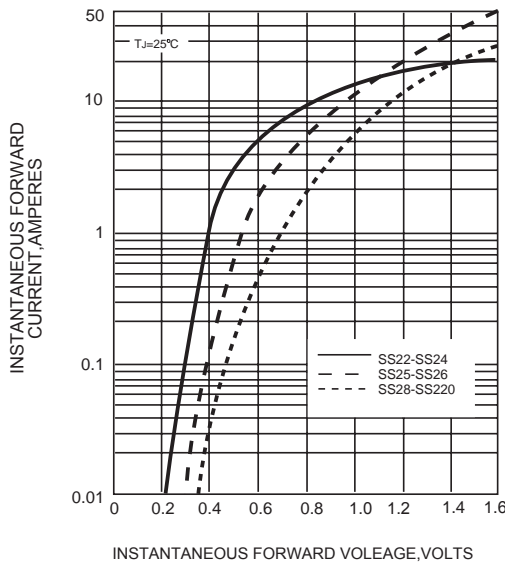
**FIG. 1- FORWARD CURRENT DERATING CURVE**



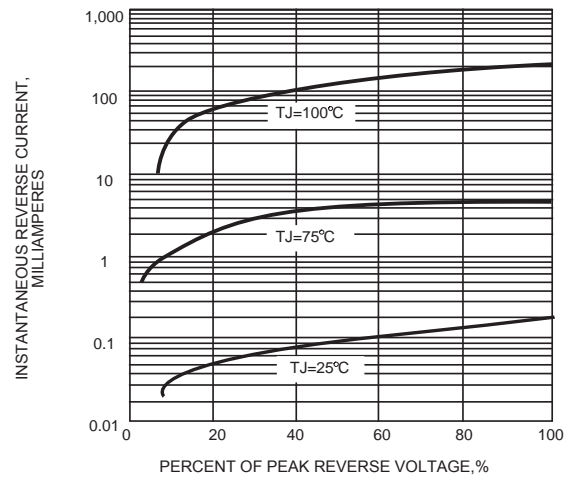
**FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**



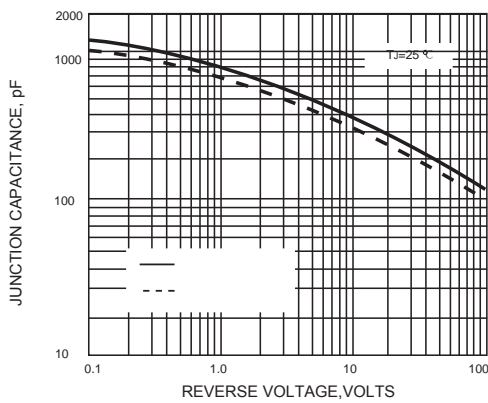
**FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**



**FIG. 4-TYPICAL REVERSE CHARACTERISTICS**



**FIG. 5-TYPICAL JUNCTION CAPACITANCE**



**FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE**

