

**SURFACE MOUNT  
GLASS PASSIVATION RECTIFIERS**

REVERSE VOLTAGE - **1300** Volts  
FORWARD CURRENT - **1.0** Amperes

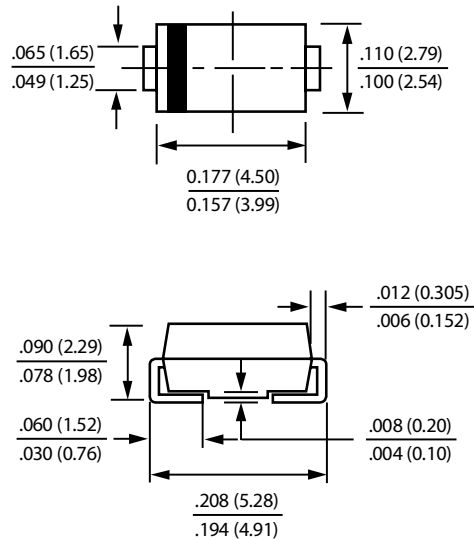
**FEATURES**

- Glass passivation junction
- Low cost
- For surface mounted applications
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0

**MECHANICAL DATA**

- Case : SMA
- Polarity : Color band denotes cathode
- Weight : 0.064 grams
- Mounting position : Any

**SMA**



**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.  
Single phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%

PARAMETER	SYMBOL	S1T	UNIT
Maximum repetitive peak reverse voltage	VRRM	1300	V
Maximum RMS voltage	VRMS	910	V
Maximum DC blocking voltage	VDC	1300	V
Maximum average forward rectified current	I <sub>F</sub>	1.0	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	30.0	A
Maximum instantaneous I <sub>F</sub> =1A@25°C	V <sub>F</sub>	1.0	V
Maximum DC Reverse Current @TA=25°C at Rated DC Blocking Voltage @TA=100°C	I <sub>R</sub>	5 500	uA
Typical Junction Capacitance	C <sub>J</sub>	20	pF
Typical thermal resistance	R <sub>θJA</sub>	20	°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to +150	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150	°C

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

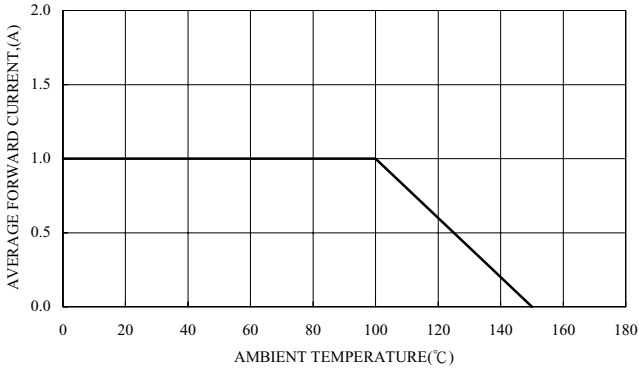


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

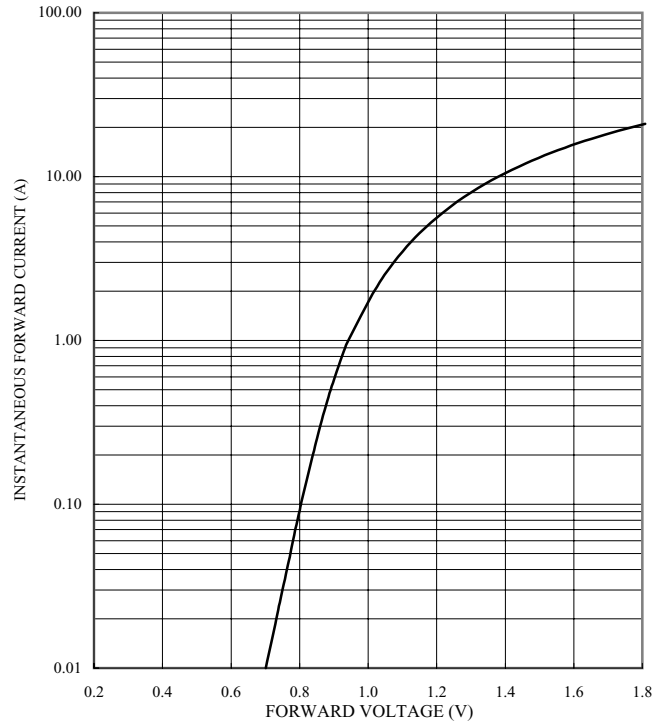


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

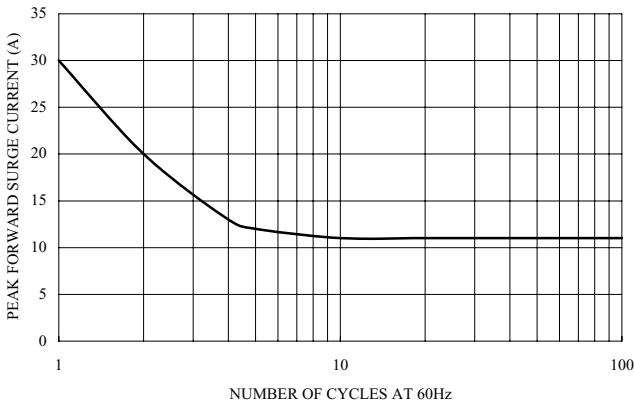


FIG. 5-TYPICAL REVERSE CHARACTERISTICS

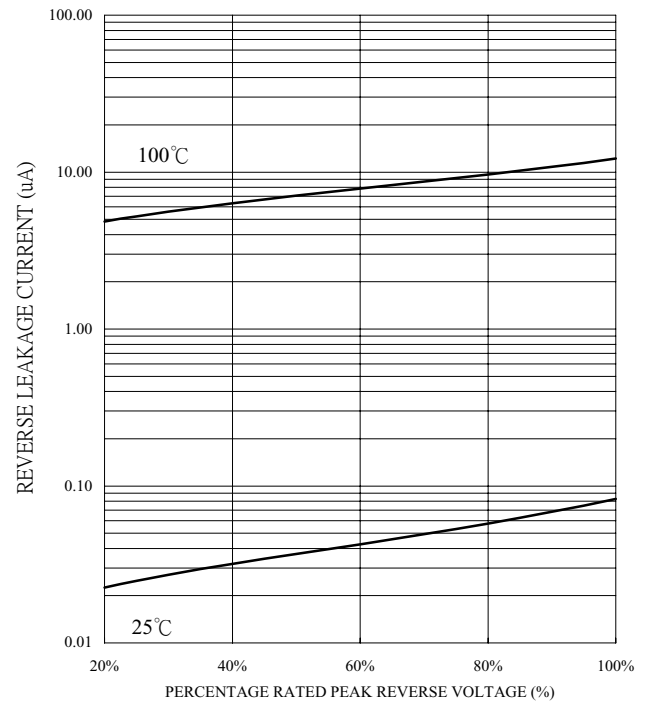


FIG. 4-TYPICAL JUNCTION CAPACITANCE

