



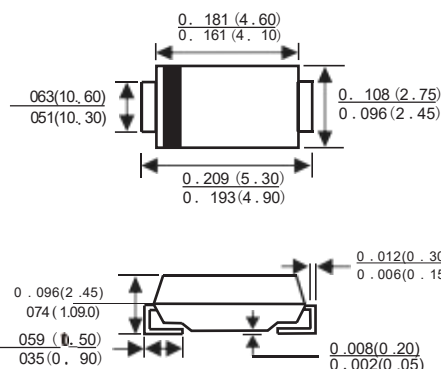
### Features

- For surface mounted applications
- Low leakage
- Low forward voltage drop
- High current capability
- Easily cleaned with Alcohol, Isopropanol and similar solvents
- The plastic material carries U/L recognition 94V-0

### Mechanical Data

- Case: JEDEC DO-214AC, molded plastic
- Terminals: Solder plated, solderable per MIL-STD-202, Method 208
- Polarity: Color band denotes cathode end
- Weight: 0.002 ounces, 0.064 grams
- Mounting position: Any

### SMA/DO-214AC



Dimensions in inches and( millimeters)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

		M1	M2	M3	M4	M5	M6	M7	UNITS
Maximum recurrent peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum average forward rectified current @ $T_L=110^{\circ}C$	$I_{(AV)}$	1.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load $T_J=125^{\circ}C$	$I_{FSM}$	30							A
Maximum instantaneous forward voltage at 1.0 A	$V_F$	1.1							V
Maximum reverse current @ $T_A=25^{\circ}C$ at rated DC blocking voltage @ $T_A=100^{\circ}C$	$I_R$	5.0 50							$\mu A$
Typical junction capacitance (Note1)	$C_J$	15							pF
Typical thermal resistance (Note2)	$R_{\theta JA}$	75							$^{\circ}C/W$
Operating temperature range	$T_J$	- 55 --- + 150							$^{\circ}C$
Storage temperature range	$T_{STG}$	- 55 --- + 150							$^{\circ}C$

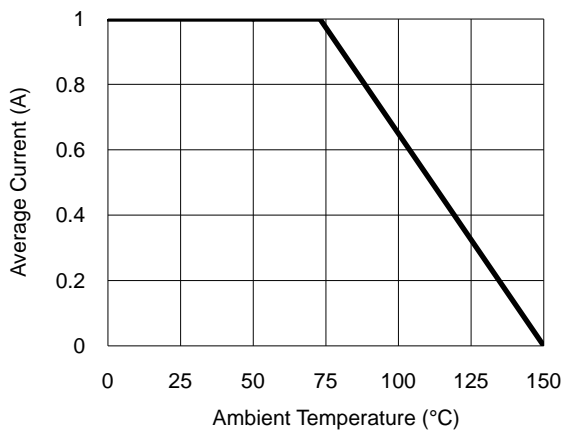
NOTE: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Thermal resistance from junction to ambient

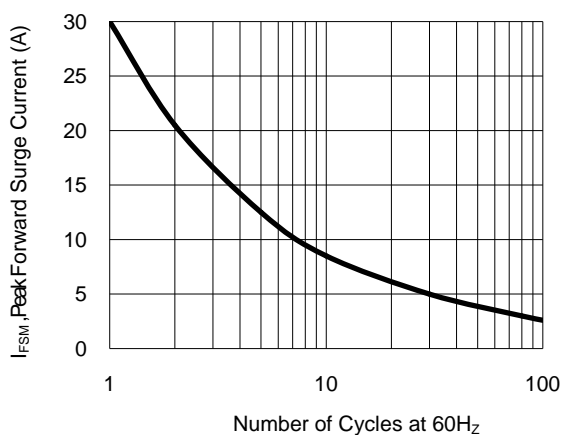


**Ratings and Characteristic Curves (TA=25°C unless otherwise noted)**

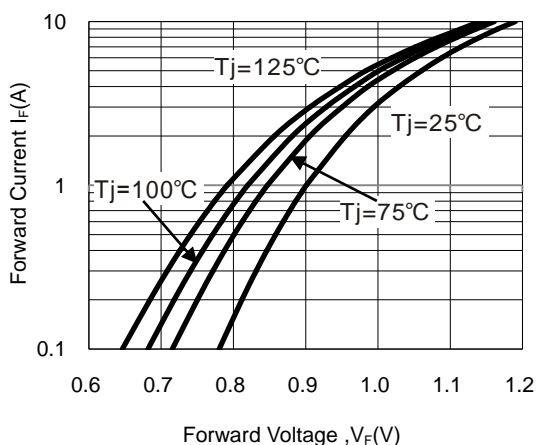
**Fig.1-Forward Current Derating Curve**



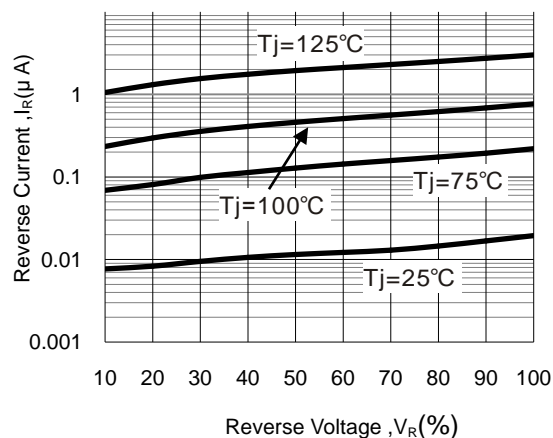
**Fig.2- Surge Current Derating Curve**



**Fig.3- Typical Forward Voltage Characteristic**



**Fig.4- Typical Reverse Characteristic**



PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
SMA	5000/REEL	80000	36X30.6X31	12.00	11.00