

RoHS Compliant Product  
A suffix of "-C" specifies halogen-free

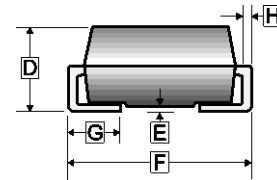
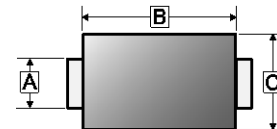
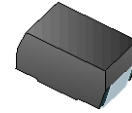
### FEATURES

- High Current Capability
- High Surge Current Capability
- Low Reverse Current

### MECHANICAL DATA

- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Terminals: Lead Free Plating (Tin Finish)  
Solderable Per MIL-STD-202, Method 208
- Polarity: Cathode Band

### SMC



### PACKAGE INFORMATION

Package	MPQ	Leader Size
SMC	3K	13 inch

### ORDER INFORMATION

Part Number	Type
QG308C-C	Lead (Pb)-free and Halogen-free

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.75	3.27	E	-	0.203
B	6.52	7.11	F	7.64	8.17
C	5.50	6.22	G	0.75	1.60
D	1.98	2.62	H	0.23 TYP.	

### MAXIMUM RATINGS (T<sub>A</sub>=25°C unless otherwise noted)

Parameters	Symbol	Ratings	Unit	
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	1300	V	
Maximum RMS Voltage	V <sub>RMS</sub>	910		
Maximum DC Blocking Voltage	V <sub>DC</sub>	1300		
Maximum Average Forward Rectified Current	I <sub>F</sub>	3	A	
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I <sub>FSM</sub>	100	A	
Maximum Instantaneous Forward Voltage @I <sub>F</sub> =3A	V <sub>F</sub>	1.15	V	
Maximum DC Reverse Current @Rated DC Blocking Voltage	I <sub>R</sub>	T <sub>A</sub> =25°C	5	μA
		T <sub>A</sub> =100°C	50	
Typical Junction Capacitance <sup>1</sup>	C <sub>J</sub>	20	pF	
Thermal Resistance Junction-Case	R <sub>θJC</sub>	20	°C/W	
Storage & Operating Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55~150	°C	

Note:

1. Measured at 1MHz and applied reverse voltage of 4V DC.

**MAXIMUM RATINGS CURVES**

FIG. 1-Typical Forward Current Derating Curve

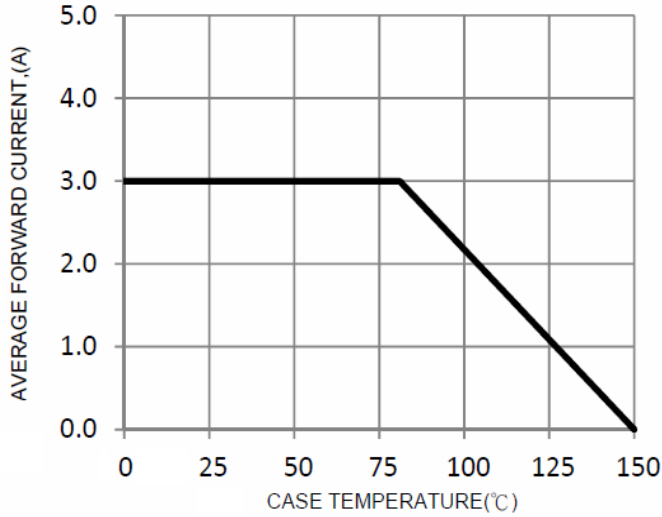


FIG. 2-Typical Forward Characteristics

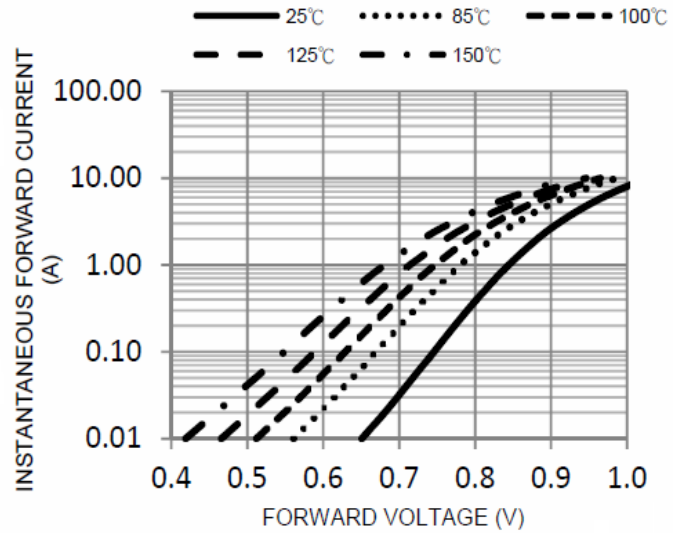


FIG. 3-Maximum Non-Repetitive Forward Surge Current

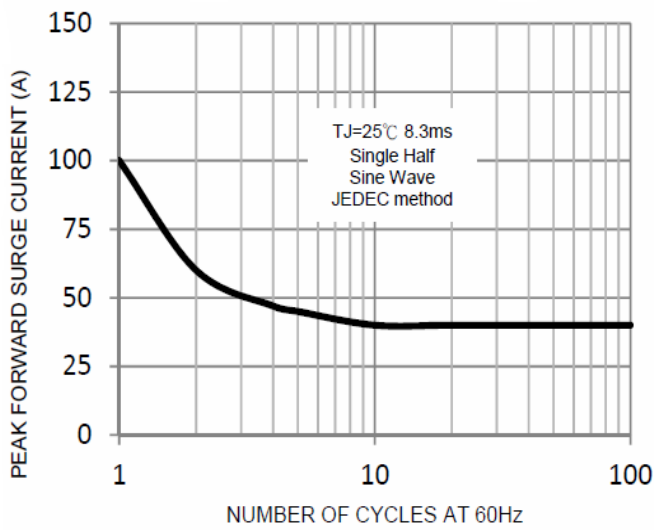


FIG. 4-Typical Reverse Characteristics

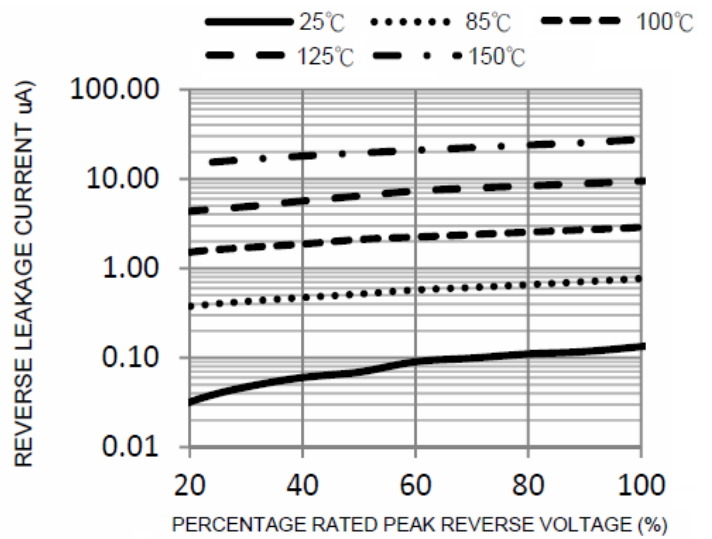


FIG. 5-Typical Junction Capacitance

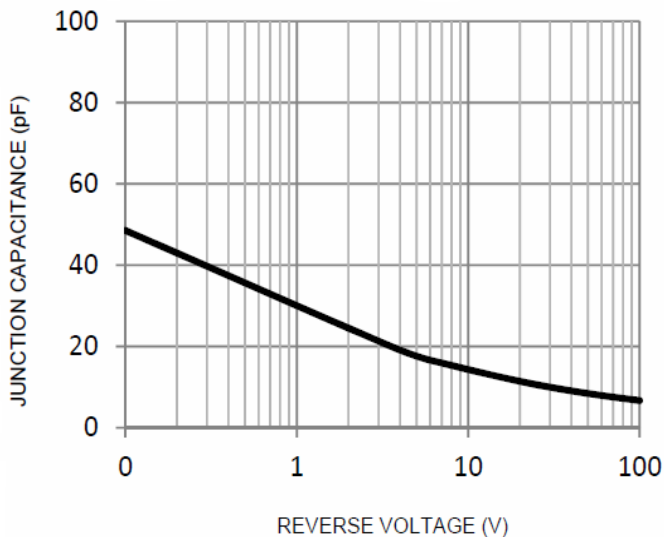
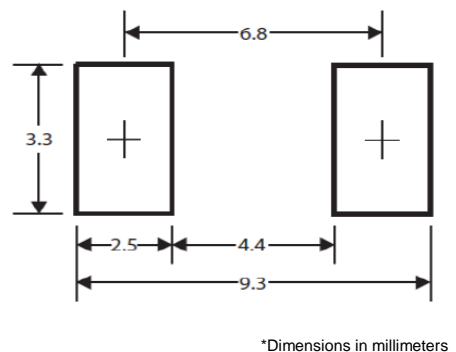


FIG. 6-Mounting Pad Layout



\*Dimensions in millimeters