

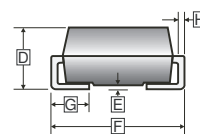
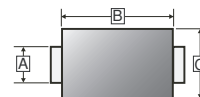
RoHS Compliant Product

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

FEATURES

- Ideal for surface mount applications
- Easy pick and place
- Built-in strain relief
- High surge current capability
- Qualified to AEC-Q101 standards for high reliability

SMA



MECHANICAL DATA

- Polarity: Color band denotes cathode end
- Case: Molded plastic
- Terminals: Solder plated, solderable per MIL-STD-202F, method 208 guaranteed
- Epoxy: UL94V-0 rate flame retardant

PACKAGE INFORMATION

Package	MPQ	Leader Size
SMA	5K	13 inch

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.23	1.65	E	-	0.3
B	3.99	4.75	F	4.70	5.28
C	2.30	2.90	G	0.75	1.52
D	1.90	2.62	H	0.15	0.31

ORDER INFORMATION

Part Number	Type
QG201ACR-C~QG207ACR-C	Lead (Pb)-free and Halogen-free

Cathode  Anode

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.
 For capacitive load, de-rate current by 20%.)

Parameters	Symbol	Part Number							Unit
		QG201A CR-C	QG202A CR-C	QG203A CR-C	QG204A CR-C	QG205A CR-C	QG206A CR-C	QG207A CR-C	
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	
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	
Maximum Instantaneous Forward Voltage @ $I_F=2A$	V_F	1.1							V
Maximum Average Forward Rectified Current	I_O	2							A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	50							A
Maximum Reverse Current	$T_J=25^\circ C$	5							μA
	$T_J=125^\circ C$	125							
Typical Thermal Resistance	$R_{\theta JL}$	20							°C/W
Typical Diode Junction Capacitance ¹	C_J	35							pF
Operating & Storage Temperature Range	T_J, T_{STG}	-55~150							°C

Note:

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

RATINGS AND CHARACTERISTIC CURVES

FIG. 1 - FORWARD CURRENT DERATING CURVE

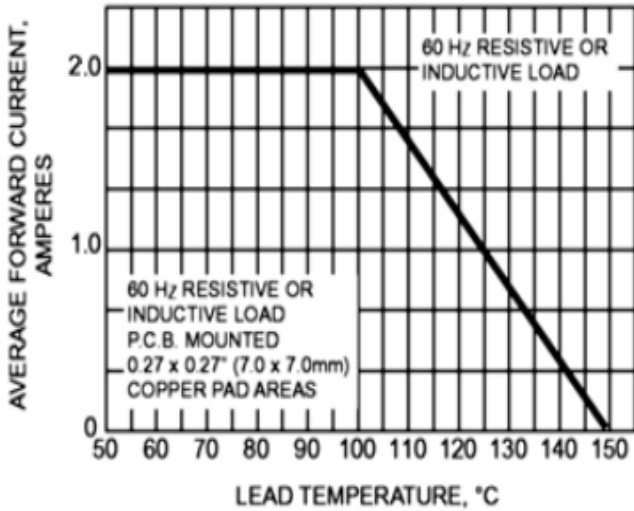


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

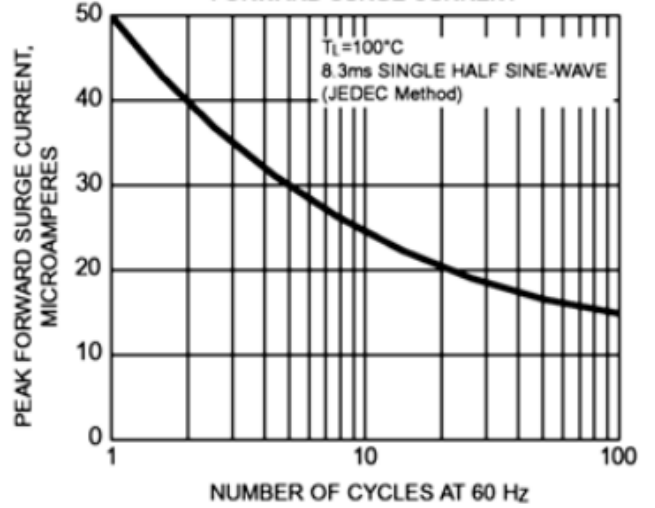


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

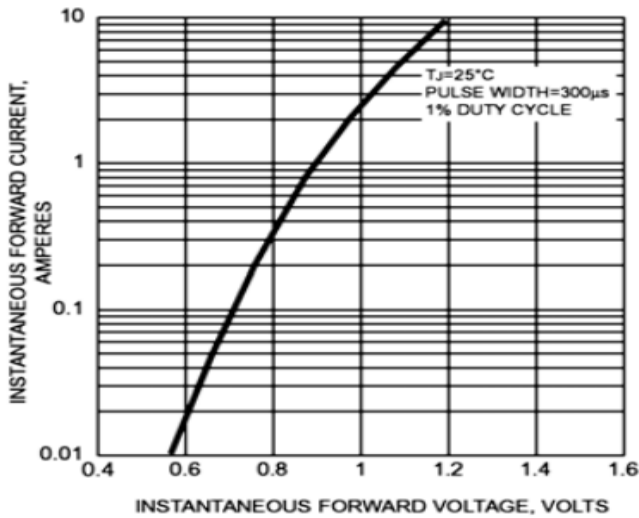


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

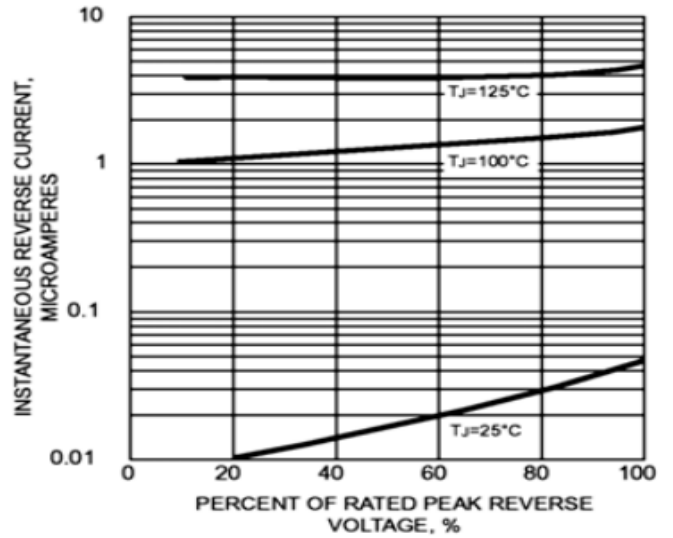


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

