

RoHS Compliant Product

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

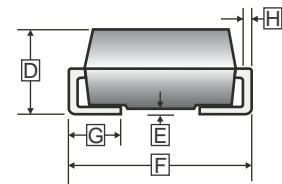
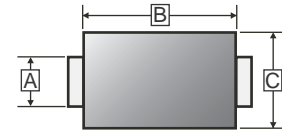
FEATURES

- Ideal for surface mount applications
- Easy pick and place
- Built-in strain relief
- High surge current capability

PACKAGING INFORMATION

- Polarity: Color band denotes cathode end
- Case: Molded plastic
- Terminals: Solder plated, solderable per MIL-STD-202F, method 208 guaranteed
- Epoxy: UL94-V0 rate flame retardant
- Weight: 0.102 grams (approximately)

SMA



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.24	1.65	E	-	0.203
B	3.99	4.60	F	4.80	5.28
C	2.40	2.90	G	0.76	1.52
D	1.90	2.44	H	0.15	0.305

PACKAGE INFORMATION

Package	MPQ	Leader Size
SMA	5K	13 inch

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
		QG 201A	QG 202A	QG 203A	QG 204A	QG 205A	QG 206A	QG 207A	
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 Instantaneous Forward Voltage @ $I_F = 2.0 A$	V_F	1.1							V
Maximum Forward Average Forward Rectified Current	I_O	2.0							A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	50							A
Maximum Reverse Current	$T_J=25^\circ C$	5.0							μA
	$T_J=125^\circ C$	125							
Typical Thermal Resistance	$R_{\theta JL}$	20							$^\circ C/W$
Typical Diode Junction Capacitance ¹	C_J	35							pF
Storage and Operating Temperature Range	T_{STG}, T_J	55~150							$^\circ C$

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

RATINGS AND CHARACTERISTIC CURVES

FIG. 1 - FORWARD CURRENT DERATING CURVE

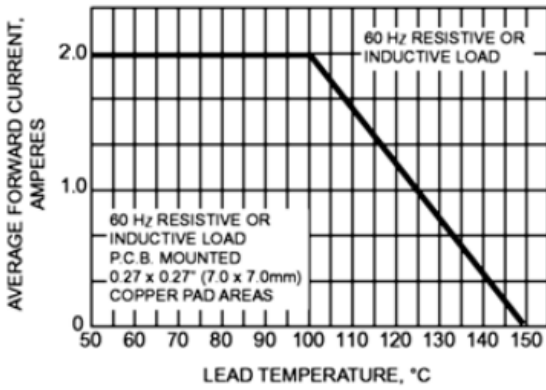


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

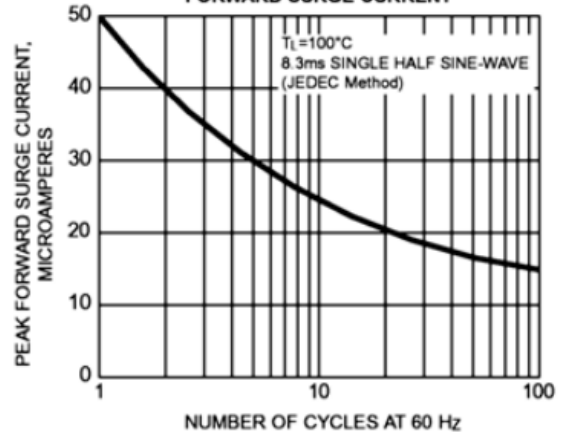


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

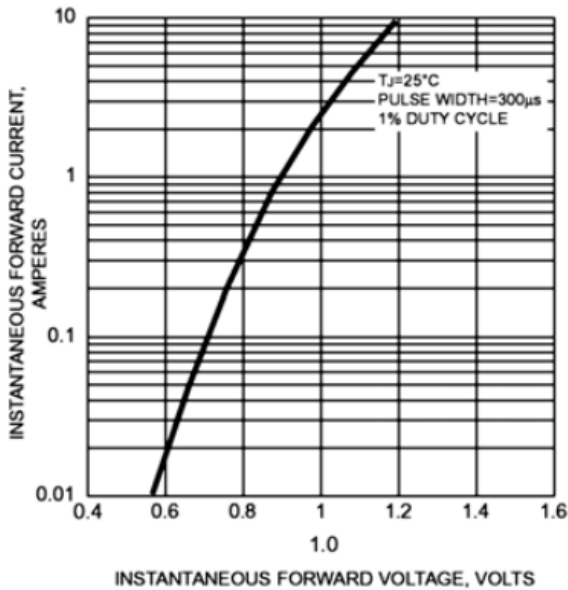


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

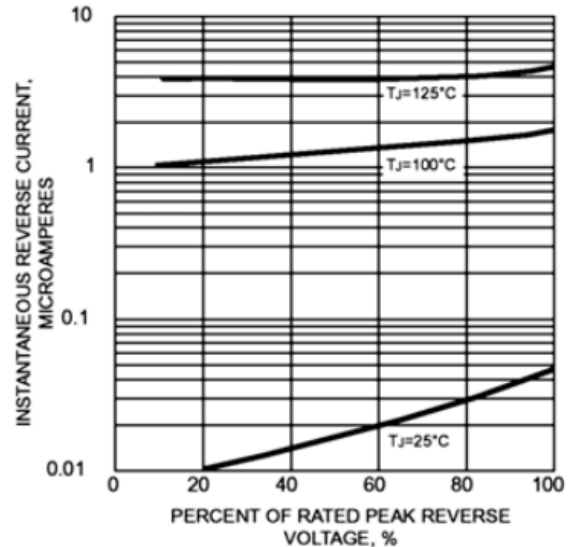


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

