

RoHS Compliant Product

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

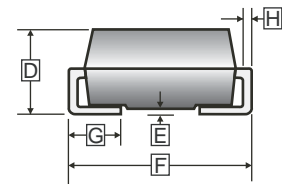
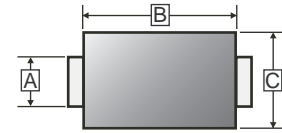
FEATURES

- 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)

SMB



PACKAGE INFORMATION

Package	MPQ	Leader Size
SMB	3K	13 inch

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.91	2.20	E	-	0.203
B	4.06	4.75	F	5.08	5.59
C	3.30	3.94	G	0.76	1.52
D	1.95	2.65	H	0.15	0.31

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 201B	QG 202B	QG 203B	QG 204B	QG 205B	QG 206B	QG 207B	
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	1.25							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
	$T_J=100^\circ C$	100							
Typical Thermal Resistance	$R_{\theta JA}$	53							$^\circ C/W$
Typical Thermal Resistance	$R_{\theta JL}$	16							$^\circ C/W$
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

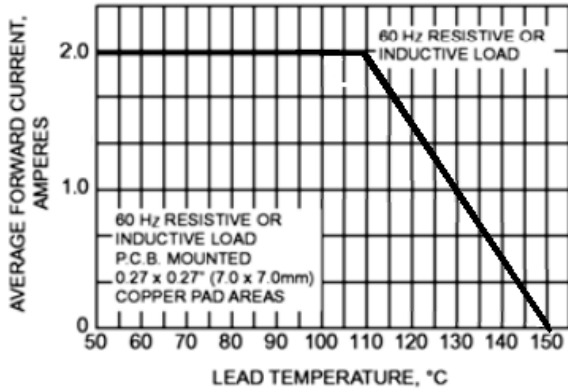


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

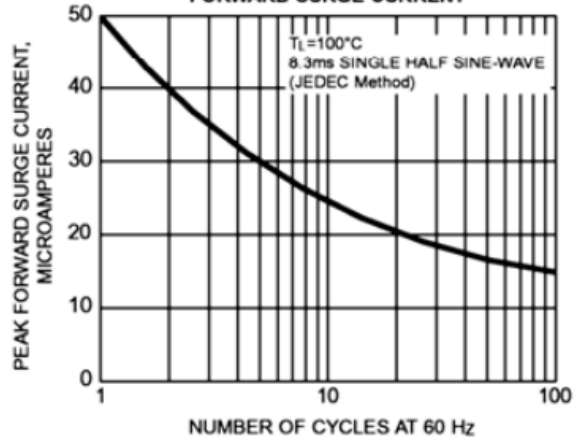


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

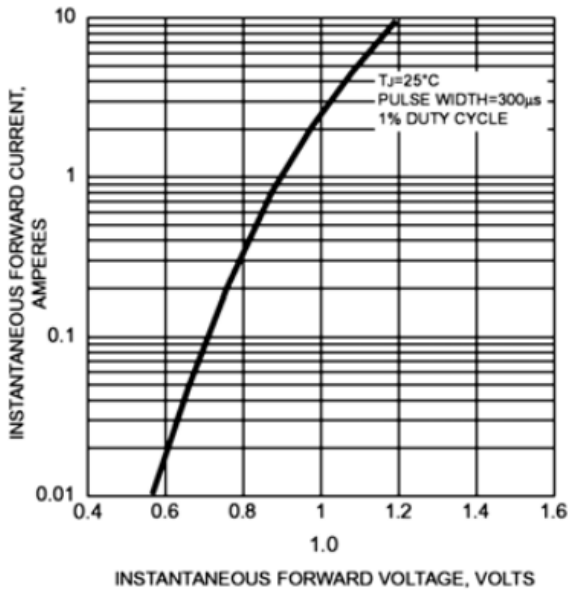


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

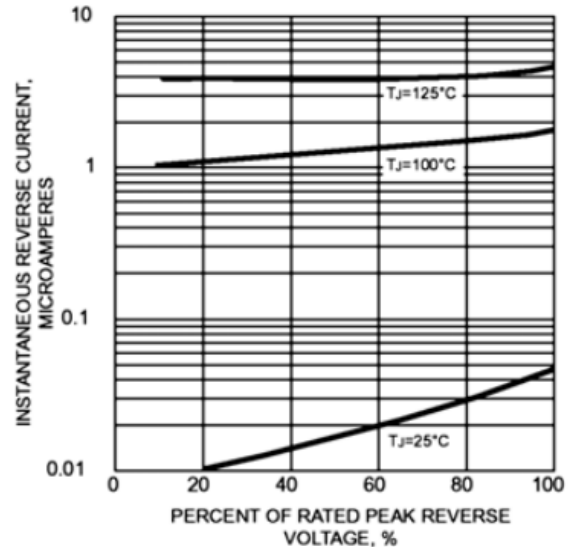


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

