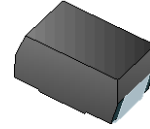


RoHS Compliant Product
A suffix of "-C" specifies halogen-free

FEATURES

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- Metal Silicon Junction, Majority Carrier Conduction

SMB



MECHANICAL DATA

- Case Material : Molded Plastic. UL Flammability Classification Rating 94V-0
- Terminals : Plated Leads Solderable Per MIL-STD-750, Method 2026 Guaranteed
- Polarity : Cathode Band

PACKAGE INFORMATION

Package	MPQ	Leader Size
SMB	3K	13 inch

ORDER INFORMATION

Part Number	Type
QG201B-C~QG207B-C	Lead (Pb)-free and Halogen-free

Cathode  Anode

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

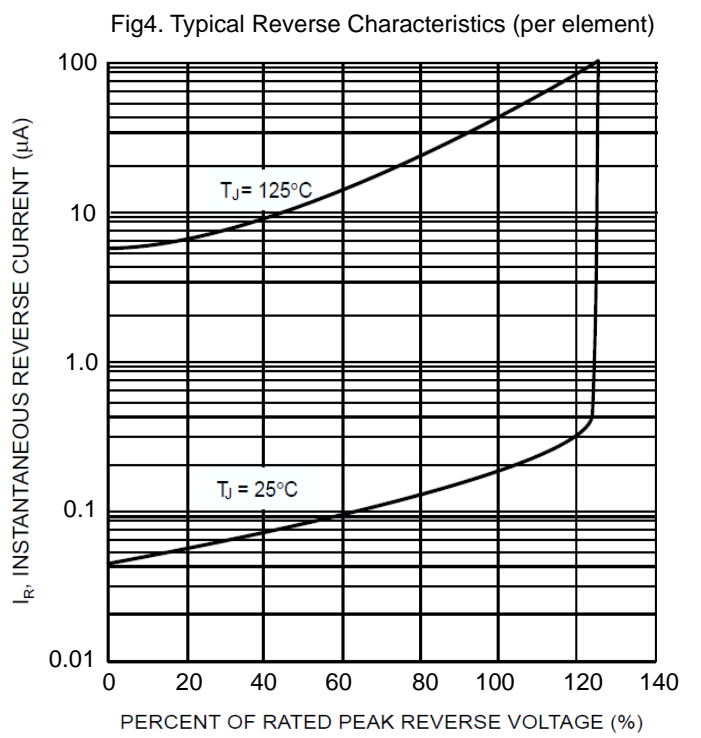
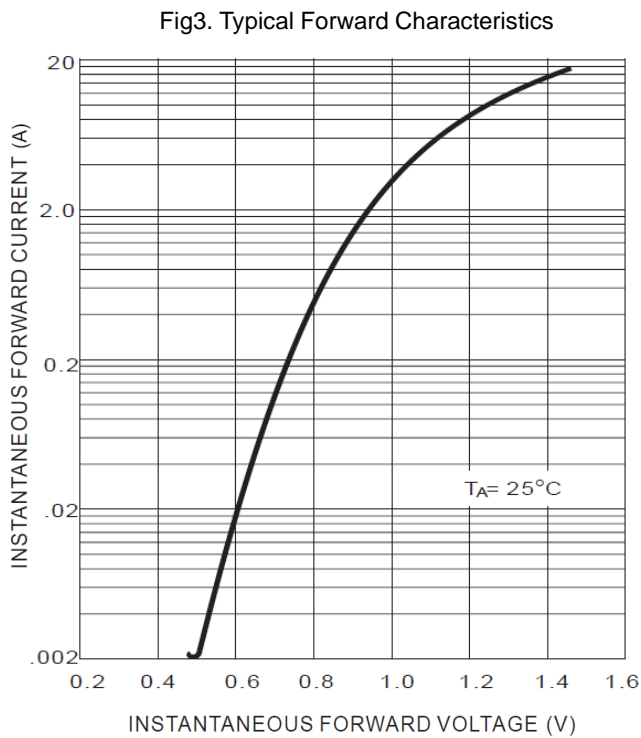
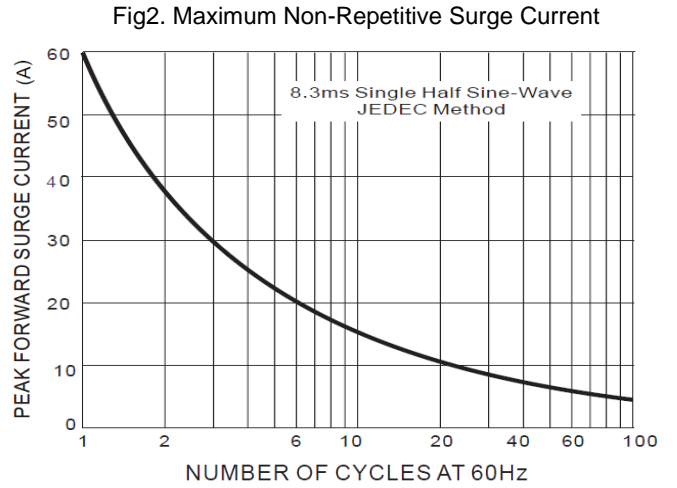
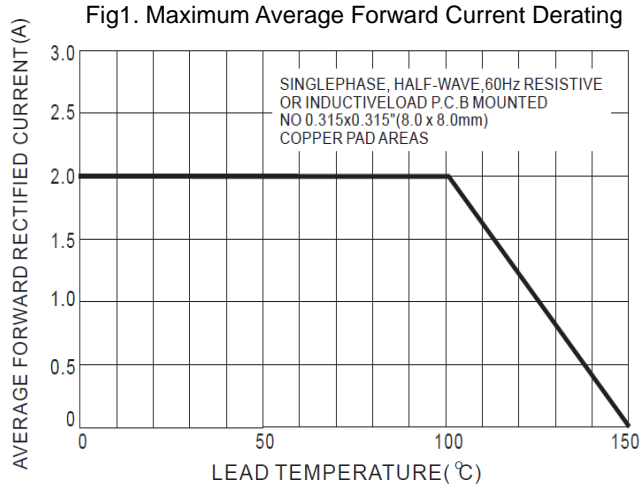
(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.)

Parameters	Symbol	Part Number							Unit
		QG 201B-C	QG 202B-C	QG 203B-C	QG 204B-C	QG 205B-C	QG 206B-C	QG 207B-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	
Average Rectified Output Current @ $T_L=100^\circ\text{C}$	I_o	2							A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	60							A
Forward Voltage @ $I_F=2\text{A}$	V_F	1							V
Peak Reverse Current @Rated DC Blocking Voltage	$T_A=25^\circ\text{C}$	5							μA
	$T_A=125^\circ\text{C}$	100							
Typical Junction Capacitance ¹	C_J	8							pF
Typical Thermal Resistance ²	$R_{\theta JA}$	90							$^\circ\text{C}/\text{W}$
Operating & Storage Temperature Range	T_J, T_{STG}	-55~150							$^\circ\text{C}$

Notes:

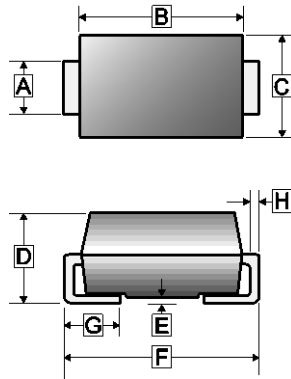
1. Measured at 1MHz and applied reverse voltage of 4V D.C.
2. Thermal Resistance from Junction to Ambient at 0.375(9.5mm) lead length.

RATINGS AND CHARACTERISTIC CURVES



PACKAGE OUTLINE DIMENSIONS

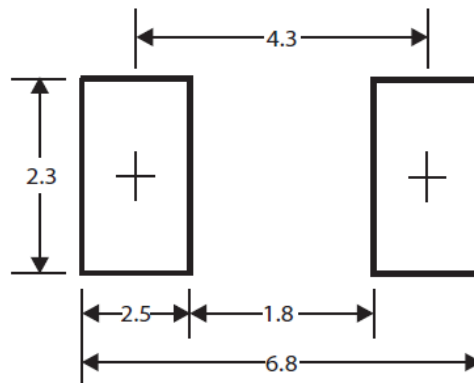
SMB



REF.	Millimeter	
	Min.	Max.
A	1.85	2.20
B	4.00	4.85
C	3.25	3.94
D	1.90	2.61
E	-	0.25
F	5.05	5.59
G	0.75	1.55
H	0.15	0.31

MOUNTING PAD LAYOUT

SMB



*Dimensions in millimeters