

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

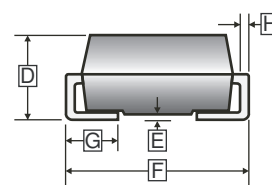
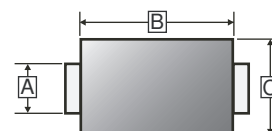
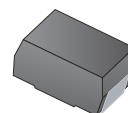
PACKAGE INFORMATION

Package	MPQ	Leader Size
SMB	3K	13 inch

ORDER INFORMATION

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

SMB



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.85	2.20	E	-	0.203
B	4.00	4.75	F	5.08	5.59
C	3.25	3.94	G	0.75	1.52
D	1.99	2.61	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%.)

or capacitive load, dc 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 =2A	V _F	1.25							V	
Maximum Forward 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℃	I _R	5							μA
	T _J =100℃		100							
Typical Thermal Resistance	R _{θJA}	53							℃/W	
Typical Thermal Resistance	R _{θJL}	16							℃/W	
Typical Diode Junction Capacitance ¹	C _J	35							pF	
Operating and Storage Temperature Range	T _J , T _{STG}	-55~150							℃	

Note:

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

RATINGS AND CHARACTERISTIC CURVES

FIG. 1 - FORWARD CURRENT DERATING CURVE

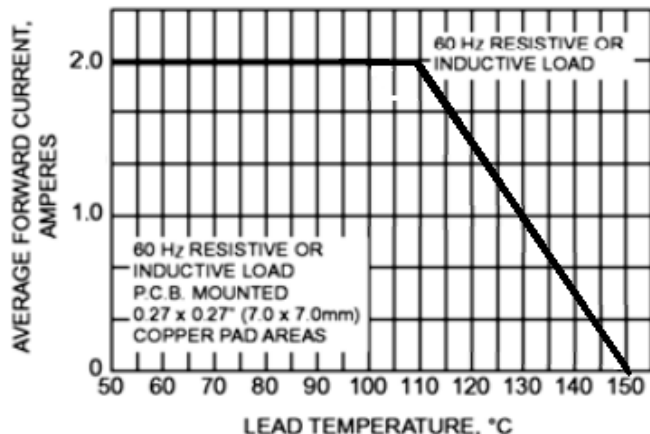


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

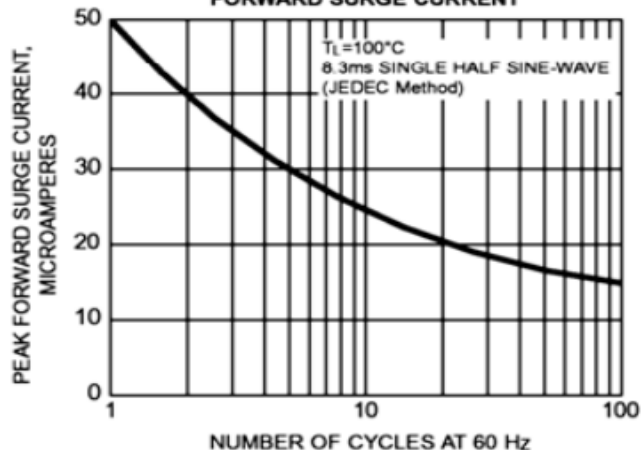


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

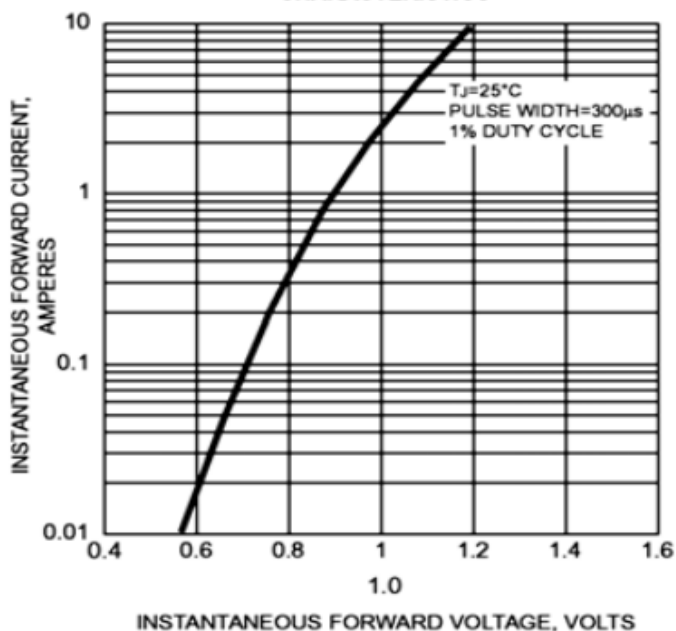


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

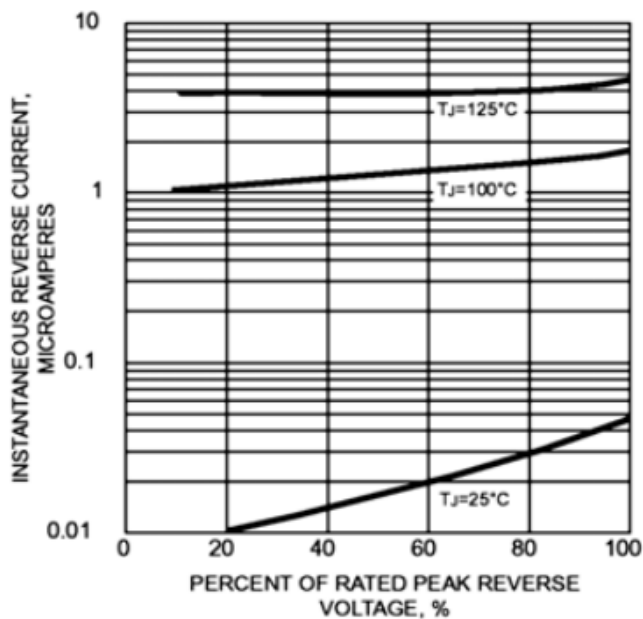


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

