

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

FEATURES

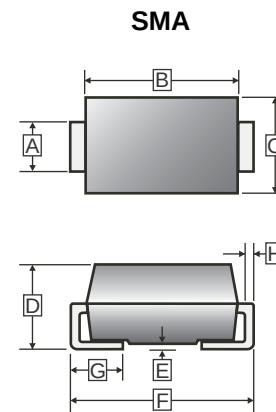
- Ideal for surface mount applications
- Easy pick and place
- Built-in strain relief
- High surge current capability

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)

PACKAGE INFORMATION

Package	MPQ	Leader Size
SMA	5K	13 inch



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

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%.)

for capacitive load, dc 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°C	I _R	5.0							μA
	T _J =125°C		125							
Typical Thermal Resistance	R _{θJL}	20							°C/W	
Typical Diode Junction Capacitance ¹	C _J	35							pF	
Storage and Operating Temperature Range	T _{STG} , T _J	55~150							°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

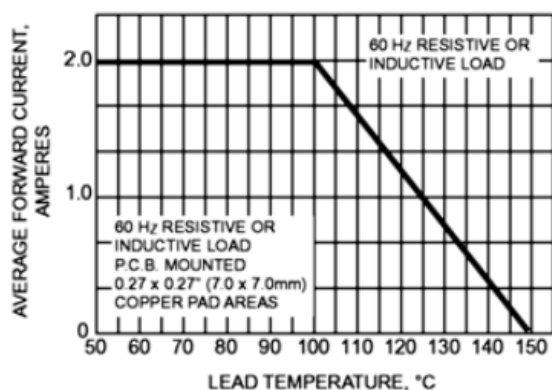


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

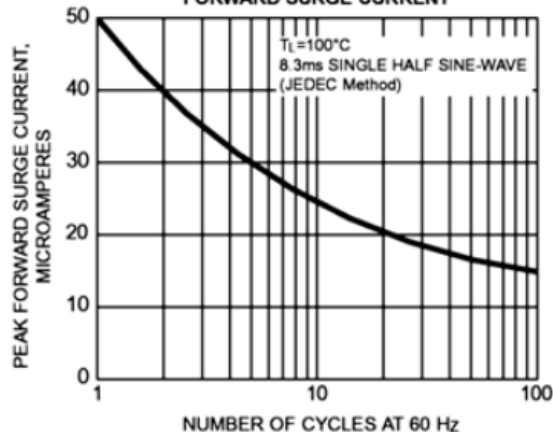


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

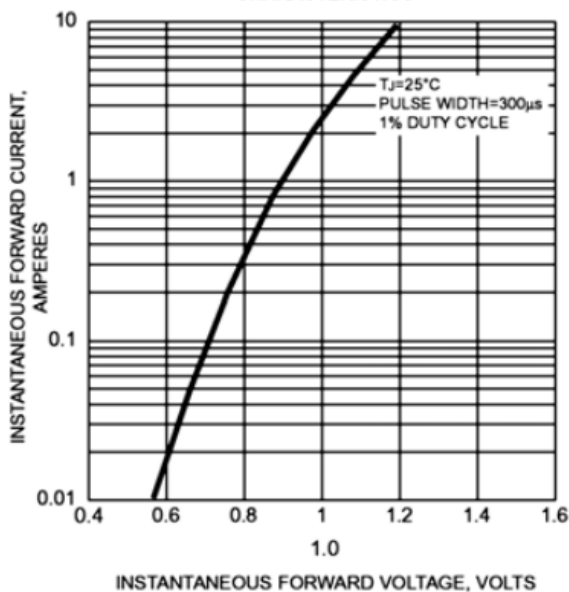


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

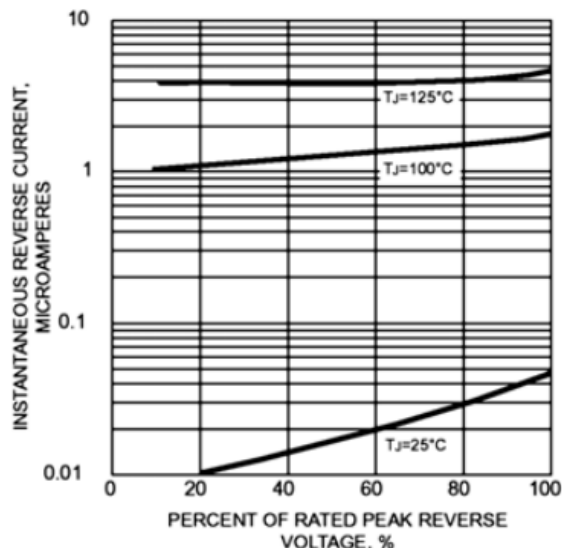


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

