Elektronische Bauelemente

QG5391A THRU QG5399A

VOLTAGE 50V ~ 1000V

1.5AMP Surface Mount Silicon Rectifiers

RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free

SMA

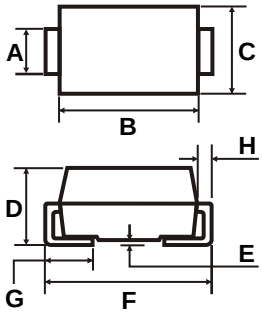


FEATURES

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

MECHANICAL DATA

* Case: Molded plastic
* Epoxy: UL 94V-0 rate flame retardant
* Terminals: Solder plated, solderable per MIL-STD-202F, method 208 guaranteed
* Polarity: Color band denotes cathode end
* Mounting position: Any
* Weight: 0.063 gram



	Dimensions in Millimeters		Dimensions in Inches	
A	1.25	1.65	0.049	0.065
B	3.99	4.60	0.157	0.181
C	2.50	2.90	0.098	0.114
D	1.98	2.44	0.078	0.096
E	0.051	0.203	0.002	0.008
F	4.78	5.28	0.188	0.208
G	0.76	1.52	0.030	0.060
H	0.152	0.305	0.006	0.012

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, derate current by 20%.

TYPE NUMBER	QG5391A	QG5392A	QG5393A	QG5395A	QG5397A	QG5398A	QG5399A	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at Ta=75°C	1.5							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	50							A
Maximum Instantaneous Forward Voltage at 1.5A	1.15							V
Maximum DC Reverse Current Ta=25°C	10.0							µA
at Rated DC Blocking Voltage Ta=100°C	100							µA
Typical Junction Capacitance (Note 1)	30							pF
Typical Thermal Resistance R JA (Note 2)	53							°C/W
Operating and Storage Temperature Range T_J, T_{STG}	-65 — +175							°C

NOTES:

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

2. Thermal Resistance from Junction to Ambient.

Elektronische Bauelemente

QG5391A THRU QG5399A

VOLTAGE 50V ~ 1000V

1.5AMP Surface Mount Silicon Rectifiers

RATING AND CHARACTERISTIC CURVES (SM5391A THRU SM5399A)

FIG.1-TYPICAL FORWARD CHARACTERISTICS

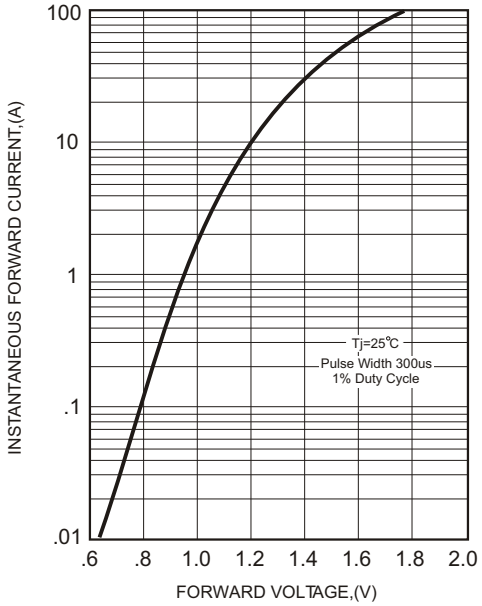


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

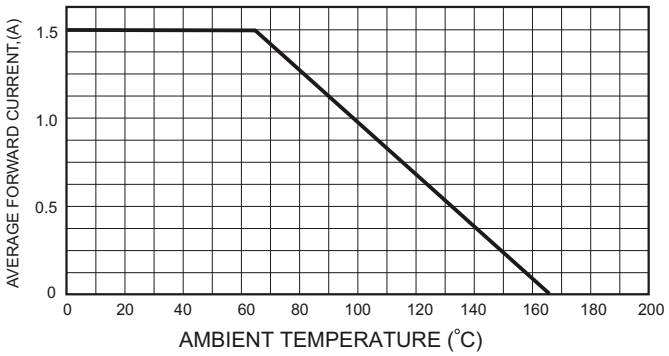


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

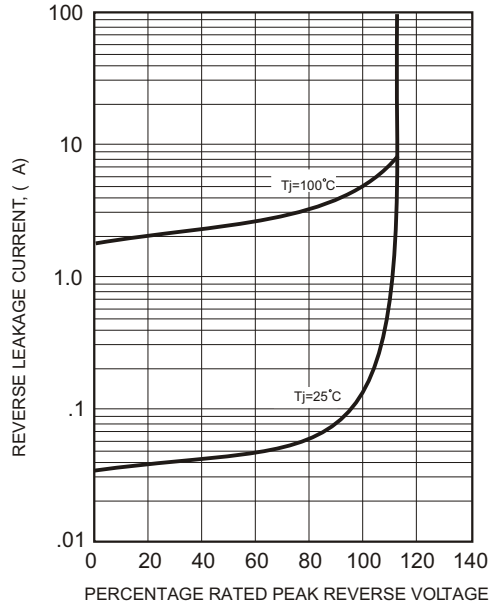


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

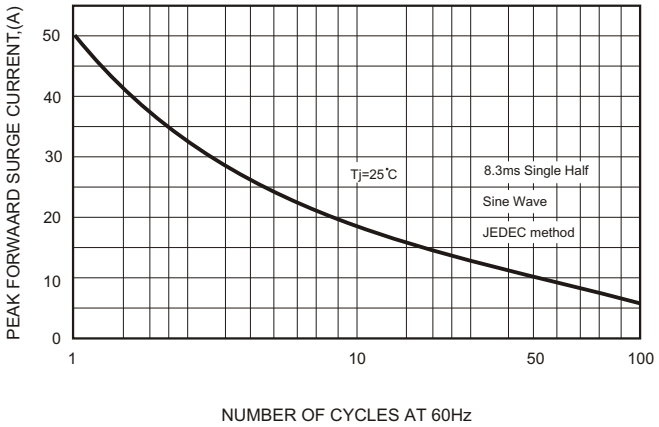


FIG.5-TYPICAL JUNCTION CAPACITANCE

