

QG207BM 1000V, 2A

Surface Mount Silicon Rectifiers

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

FEATURES

- For surface mounted applications
- Glass passivated chip junction
- Easily to be picked and place
- · Fast reverse recovery time

SMBM Cathode Band

PACKAGE INFORMATION

Package	MPQ	Leader Size	
SMBM	5K	13 inch	

EF. Millimeter REF. Millimeter Min. Max. REF. Millimeter Min. Max.

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%.)

Parameter		Symbol	Rating	Unit
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	1000	V
Maximum RMS Voltage		V _{RMS}	700	V
Maximum DC Blocking Voltage		V _{DC}	1000	V
Maximum Average Forward Rectified Current@ T _C =125℃		I _F	2	Α
Peak Forward Surge Current@ 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	50	А
Maximum Instantaneous Forward Voltage@ 2A		V _F	1.3	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A =25℃		5	μΑ
	T _A =125℃	I _R	100	
Typical Junction Capacitance@ V _R =4V, f=1MHz		CJ	28	pF
Maximum Reverse Recovery Time ¹		T _{RR}	500	ns
Typical Thermal Resistance from Junction to Ambient ²		$R_{\theta JA}$	60	€W.
Typical Thermal Resistance from Junction to Case ²		R _{θJC}	18	€W.
Operating Junction and Storage Temperature		T _J , T _{STG}	-55~150	C

Notes:

- 1. The data is measured with I_F =0.5A, I_R =1A, I_{RR} =0.25A.
- 2. The device is mounted on a PCB with 2" \times 2" (5 \times 5 cm) copper pad areas.

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CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

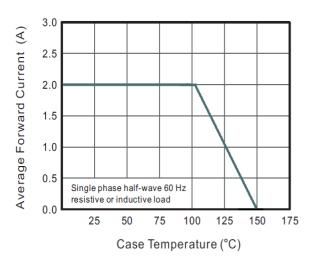


Fig.3 Typical Instaneous Forward Characteristics

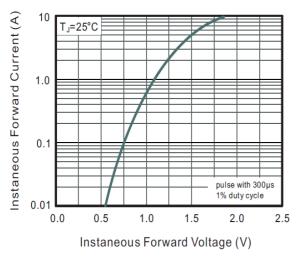


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

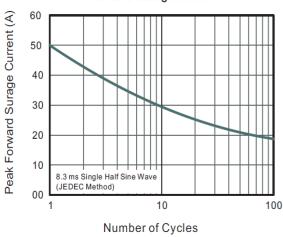


Fig.2 Typical Reverse Characteristics

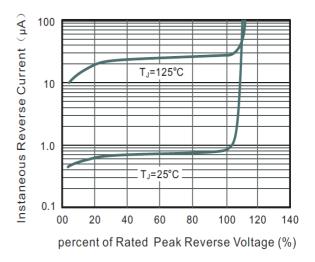
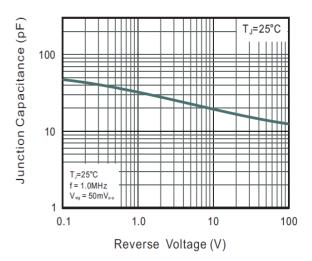


Fig.4 Typical Junction Capacitance



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