

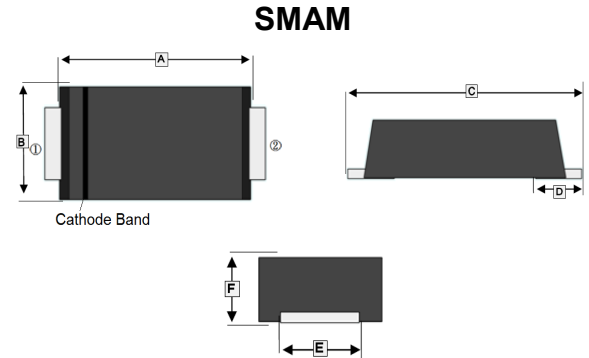
RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

## FEATURES

- Low profile package
- Ideal for automated placement
- Glass passivated chip junction
- High forward surge capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260°C

## MECHANICAL DATA

- Case : SMAM
- Polarity : Cathode line denotes the cathode end
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	3.20	3.70	D	1 TYP.	
B	2.40	2.80	E	1.30	1.60
C	4.40	4.90	F	0.90	1.25

## PACKAGE INFORMATION

Package	MPQ	Leader Size
SMAM	3K	7 inch



## ABSOLUTE MAXIMUM RATINGS ( $T_A=25^\circ\text{C}$ Unless otherwise specified)

Parameter	Symbol	Part Number							Unit	
		QG301 YAM	QG302 YAM	QG303 YAM	QG304 YAM	QG305 YAM	QG306 YAM	QG307 YAM		
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V	
Average Rectified Output Current @60Hz sine wave, resistance load, $T_L$ (Fig.1)	$I_o$	3							A	
Surge(non-repetitive) Forward Current @60Hz half-sine wave, 1 cycle, $T_A=25^\circ\text{C}$	$I_{FSM}$	90							A	
Maximum Instantaneous Forward Voltage $I_{FM}=3A$	$V_F$	1.1							V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_{RRM}$	$T_A=25^\circ\text{C}$	5							$\mu\text{A}$
		$T_A=125^\circ\text{C}$	100							
Typical Thermal Resistance	$R_{\theta JL}$	20							$^\circ\text{C/W}$	
Operating & Storage Temperature	$T_J, T_{STG}$	-55~ 150							$^\circ\text{C}$	

**RATINGS AND CHARACTERISTIC CURVES**

FIG1:  $I_o$ -TL Curve

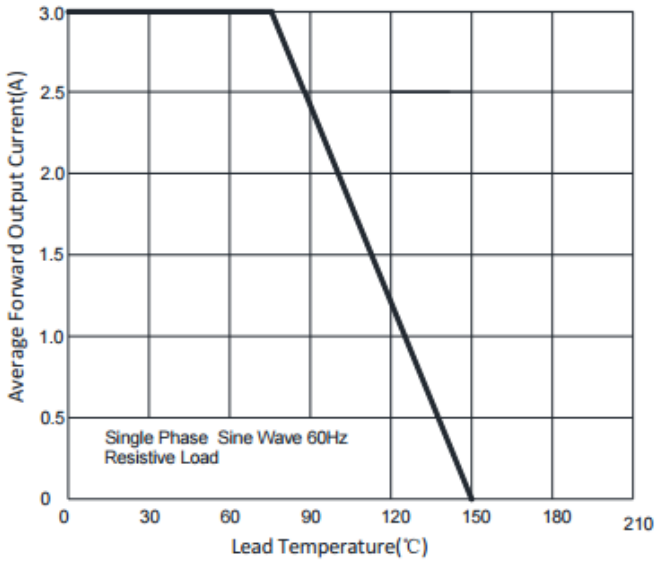


FIG2: Surge Forward Current Capability

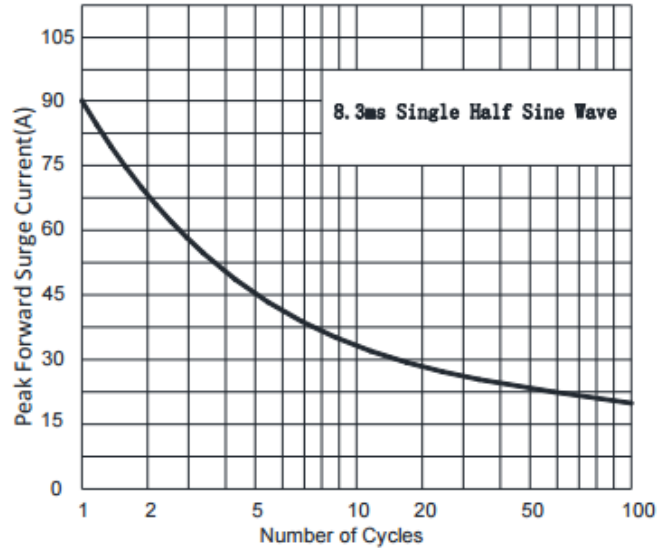


FIG3: Forward Voltage

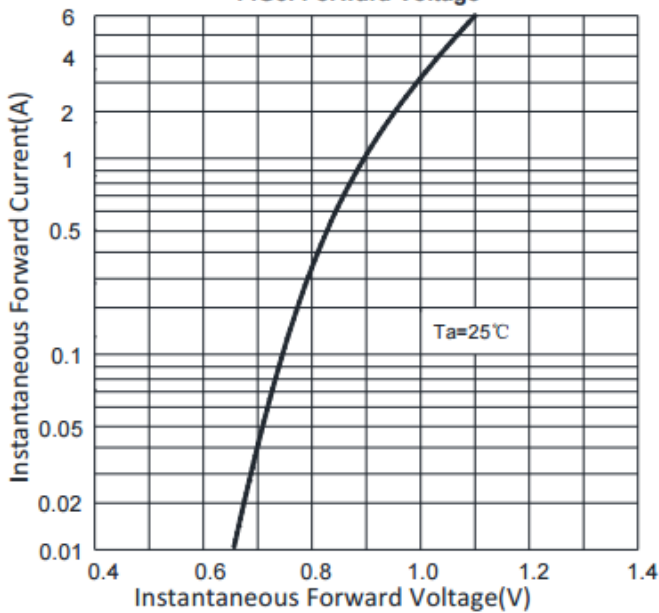


FIG4: Typical Reverse Characteristics

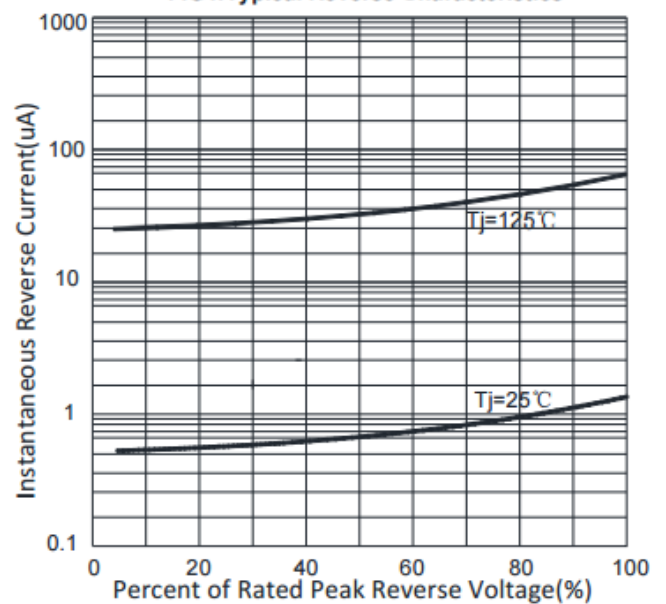


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time

