

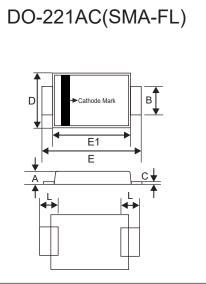
Features

- AEC-Q101 Qualified
- Halogen Free. "Green" Device (Note 1)
- Glass Passivated Chip Junction
- High Forward Surge Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (Note 2)("P" Suffix Designates RoHS Compliant. See Ordering Information)

2 Amp General Purpose Rectifier 1000 Volts

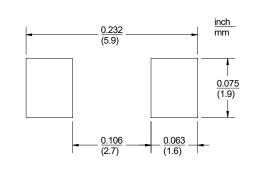
Maximum Ratings @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}		
Working Peak Reverse Voltage	V _{RWM}	1000	V
DC Blocking Voltage	V_{R}		
RMS Reverse Voltage	V_{RMS}	700	V
Average Rectified Forward Current @ T_L =105°C	I _{F(AV)}	2	A
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I	50	٨
Non-Repetitive Peak Surge Current @ 1ms Square Wave	I _{FSM}	100	A
Current Squared Time @1ms≤t≤8.3ms	l ² t	10.375	A ² s



DIMENSIONS					
DIM		MM		NOTE	
	MIN	MAX	MIN	MAX	NOIL
A	0.035	0.049	0.90	1.25	
В	0.049	0.065	1.25	1.65	
С	0.004	0.016	0.10	0.40	
D	0.089	0.116	2.25	2.95	
E	0.173	0.220	4.40	5.60	
E1	0.126	0.181	3.20	4.60	
L	0.020	0.059	0.50	1.50	

Suggested Solder Pad Layout



Internal Structure

Pin	Description	Simplified Outline	Graphic Symbol
1	Cathode	1 MCC GS2M 2	
2	Anode	YYWW = Date Code	1 o <u></u> o 2

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

2. High temperature solder exemption applied, see EU directive annex 7a.



Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
TJ	Operating Junction Temperature Range		-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-L)	Thermal Resistance from Junction to Lead	Note 1		20		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		70		°C/W

Note:

1.Mounted on P.C.B. with 8 mm x 8 mm copper pad areas.

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =2A;T _J =25°C			1.15	V
Reverse Current	I _R	at Rated V _R ;T _J =25°C at Rated V _R ;T _J =125°C			5 100	μΑ
Junction Capacitance	CJ	V _R =4V;f=1MHz;T _J =25°C		18		pF



Curve Characteristics

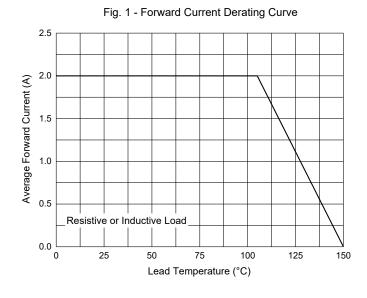


Fig. 3 - Typical Forward Characteristics

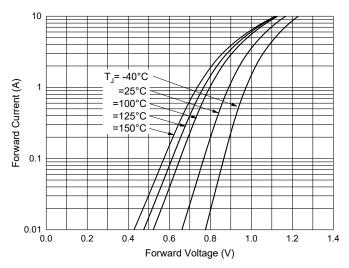
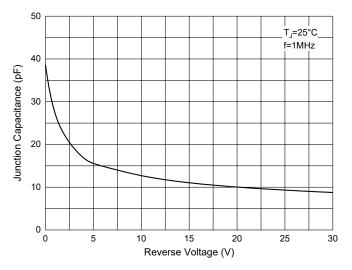


Fig. 5 - Typical Capacitance Characteristics



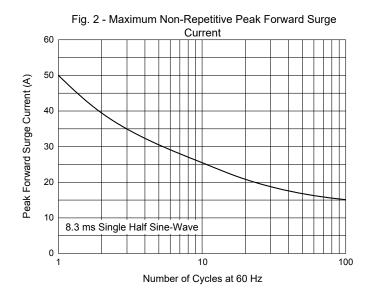
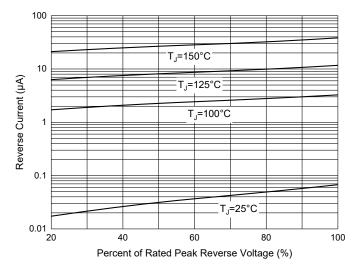


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing		
GS2MFLHE3-TP	Tape&Reel:10Kpcs/Reel		

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