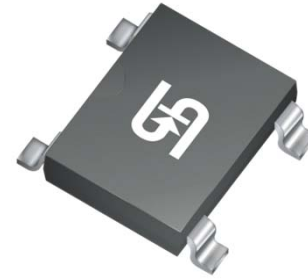


2A, 1000V Glass Passivated Bridge Rectifier

FEATURES

- Glass passivated junction
- Ideal for automated placement
- Reliable low cost construction utilizing molded plastic technique
- High surge current capability
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21



ABS



MECHANICAL DATA

Case: Molded plastic body

Molding compound, UL flammability classification rating 94V-0

Moisture sensitivity level: level 1, per J-STD-020

Part no. with suffix "H" means AEC-Q101 qualified

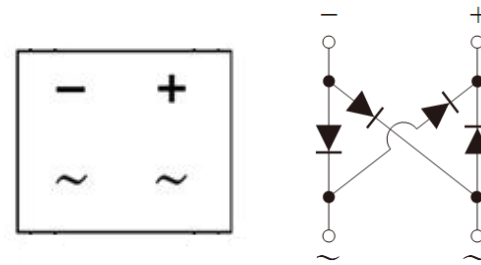
Packing code with suffix "G" means green compound (halogen-free)

Terminal: Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 2 whisker test

Polarity: Polarity as marked on the body

Weight: 0.096 g (approximately)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)						
PARAMETER			SYMBOL	ABS20M		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 On glass-epoxy On aluminum substrate			I _{F(AV)}	1.6 2.0		A
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load			I _{FSM}	50		A
Peak forward surge current, 1 ms single half sine-wave superimposed on rated load		T _J =25°C	I _{FSM}	110		A
		T _J =125°C		90		
Rating for fusing (t<8.3ms)			I ² t	10.375		A ² s
Maximum instantaneous forward voltage (Note 1)	I _F = 1 A	T _J =25°C	V _F	TYP	MAX	V
		T _J =125°C		0.92	1.02	
		T _J =25°C		0.80	-	
	I _F = 2 A	T _J =25°C		-	1.10	
		T _J =125°C		0.94	-	
Maximum reverse current @ rated V _R		T _J =25°C	I _R	5		μA
		T _J =125°C		150		
Typical thermal resistance			R _{θJL} R _{θJA}	30 85		°C/W
Operating junction temperature range			T _J	- 55 to +150		°C
Storage temperature range			T _{STG}	- 55 to +150		°C

Note 1: Pulse test with PW=300μs, 1% duty cycle

ORDERING INFORMATION					
PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING
ABS20M (Note 1)	H	RE	G	ABS	1,000 / 7" Plastic reel
		RG		ABS	5,000 / 13" Paper reel

Note 1: Whole series with green compound

EXAMPLE					
PREFERRED P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
ABS20MHREG	ABS20M	H	RE	G	AEC-Q101 qualified Green compound

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

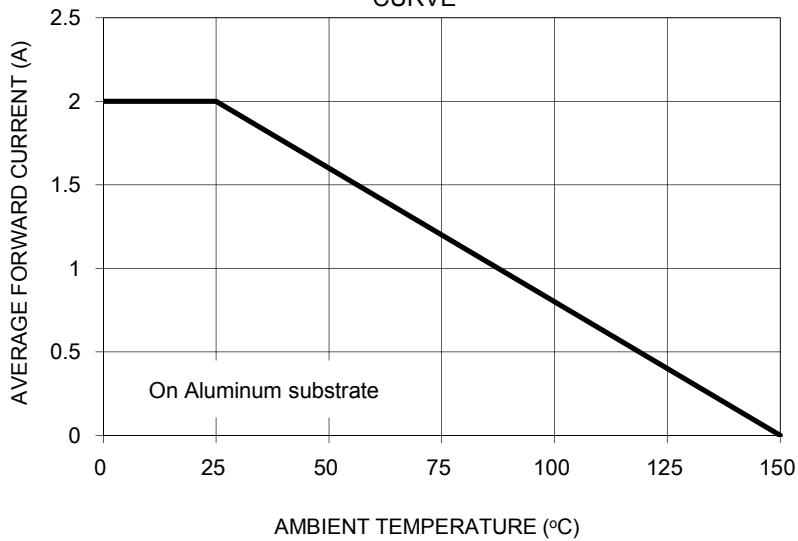


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

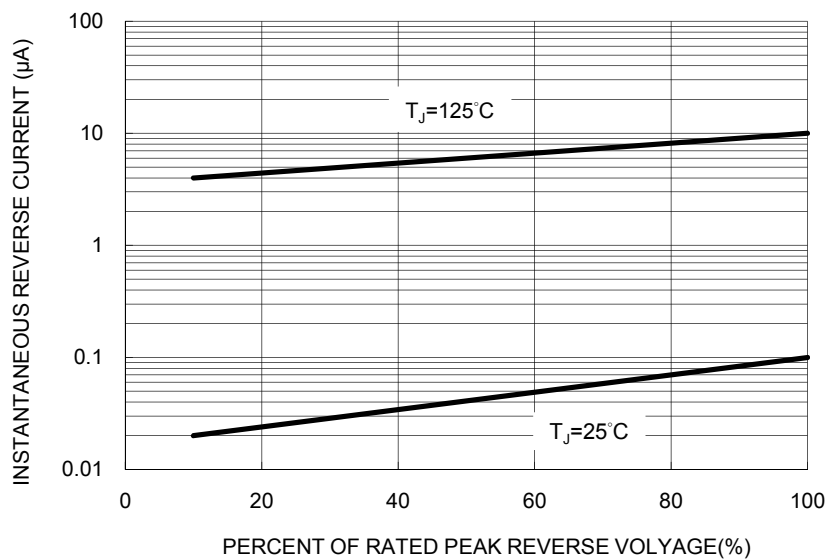


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

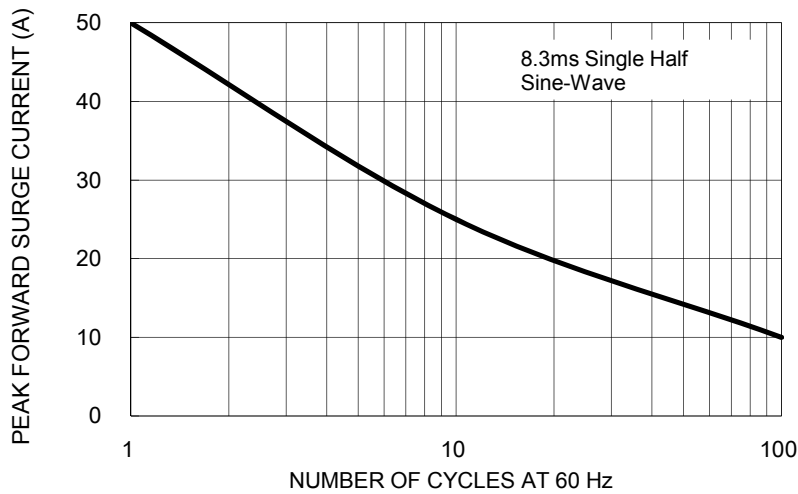


FIG. 4 TYPICAL JUNCTION CAPACITANCE

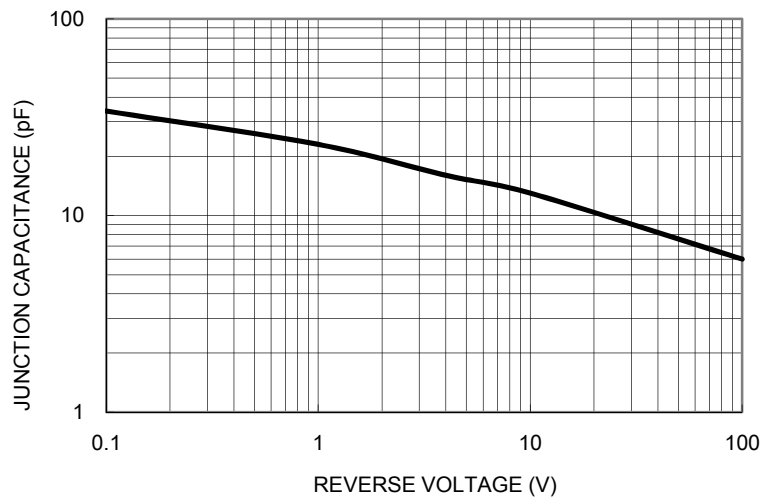
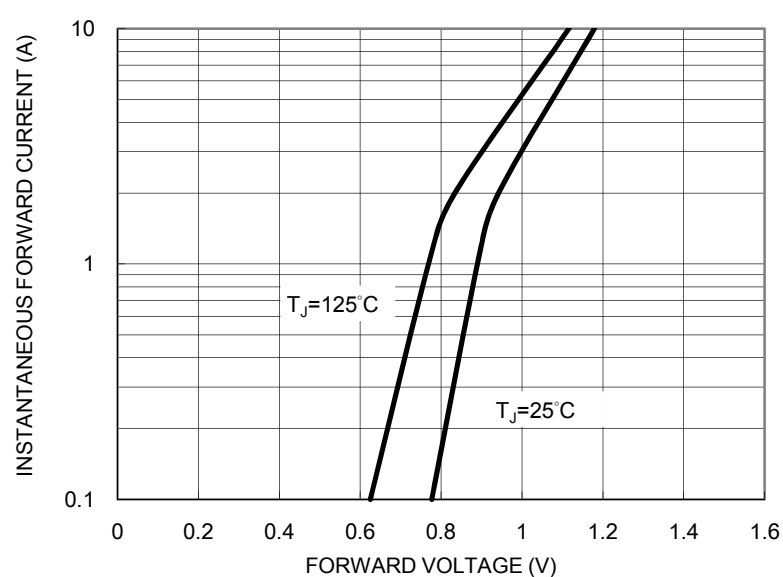
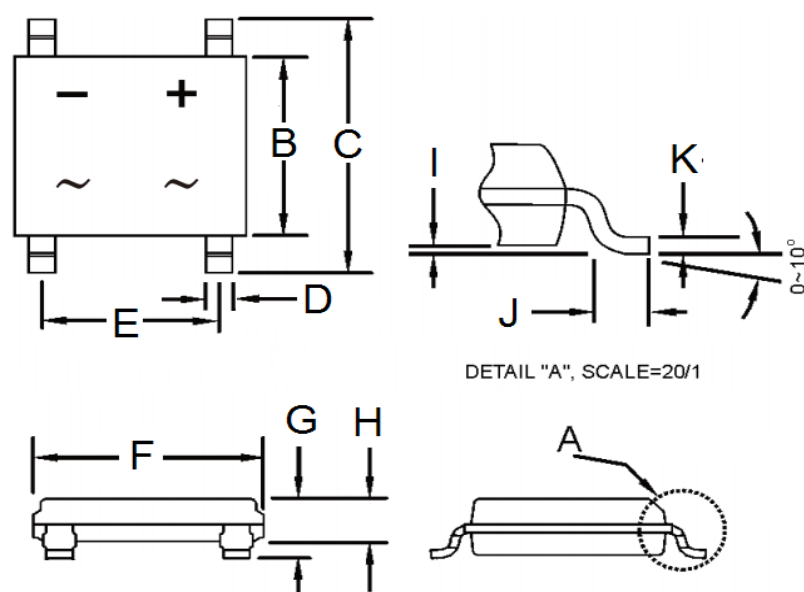


FIG. 5 TYPICAL FORWARD CHARACTERISTICS



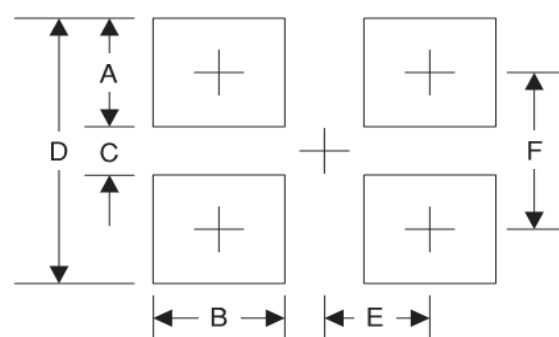
PACKAGE OUTLINE DIMENSIONS

ABS



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
B	4.30	4.50	0.169	0.177
C	6.25	6.65	0.246	0.262
D	0.60	0.70	0.024	0.028
E	3.90	4.10	0.154	0.161
F	4.90	5.10	0.193	0.200
G	1.40	1.60	0.055	0.063
H	1.35	1.45	0.053	0.057
I	0.05	0.15	0.002	0.006
J	0.30	0.70	0.012	0.028
K	0.15	0.25	0.006	0.010

SUGGESTED PAD LAYOUT



Symbol	Unit (mm)	Unit (inch)
A	1.50	0.059
B	0.90	0.035
C	4.22	0.166
D	7.22	0.284
E	2.05	0.081
F	5.72	0.225

MARKING DIAGRAM



P/N = Specific Device Code
YW = Date Code
F = Factory Code

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