

Glass Passivated Bridge Rectifiers

FEATURES

- Glass passivated junction
- Ideal for automated placement
- Reliable low cost construction utilizing molded plastic technique
- High surge current capability
- Moisture sensitivity level: level 1, per J-STD-020
- UL Recognized File # E-326854
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition
- AEC-Q101 qualified

MECHANICAL DATA

Case: Molded plastic body

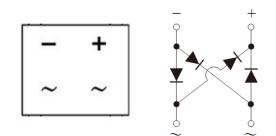
Molding compound, UL flammability classification rating 94V-0 Packing code with suffix "G" means green compound (halogen-free) **Terminal:** Matte tin plated leads, solderable per JESD22-B102 Meet JESD 201 class 2 whisker test **Polarity:** Polarity as marked on the body **Weight:** 0.12 g (approximately)











MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)							
PARAMETER	SYMBOL	ABS2	ABS4	ABS6	ABS8	ABS10	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	200	400	600	800	1000	V
Maximum average forward rectified current On glass-epoxy On aluminum substrate	I _{F(AV)}	0.8 1.0					A
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	30				А	
Rating for fusing (t<8.3ms)	l ² t	3.74				A ² s	
Maximum instantaneous forward voltage (Note 1) I_F = 0.4 A	V _F	0.95				V	
Maximum DC reverse current $T_J=25 \ ^{\circ}C$ at rated DC blocking voltage $T_J=125 \ ^{\circ}C$	۱ _R	10 150			μA		
Typical thermal resistance	R _{θJL} R _{θJA}	25 80			°C/W		
Operating junction temperature range	TJ	- 55 to +150					°C
Storage temperature range	T _{STG}	- 55 to +150					°C

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



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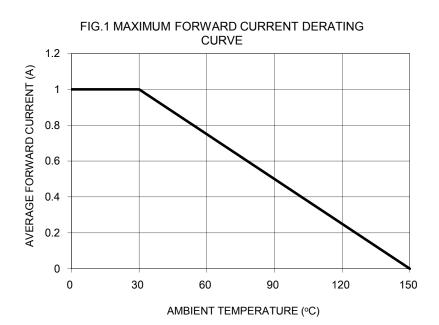
ORDERING INFORMATION						
PACKING CODE	PACKING CODE	PACKAGE	PACKING			
	SUFFIX					
RE	G	ABS	1,000 / 7" Plastic reel			
RG	6	ABS	5,000 / 13" Paper reel			
	PACKING CODE RE	PACKING CODE SUFFIX	PACKING CODEPACKAGESUFFIXABS			

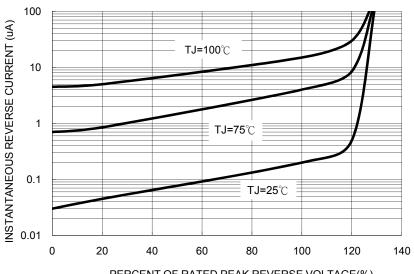
Note 1: "xx" defines voltage from 200V (ABS2) to 1000V (ABS10)

EXAMPLE						
PREFERRED P/N	PART NO.	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION		
ABS8 REG	ABS8	RE	G	AEC-Q101 qualified Green compound		

RATINGS AND CHARACTERISTICS CURVES

(TA=25 $^\circ\!\!\mathbb{C}$ unless otherwise noted)





PERCENT OF RATED PEAK REVERSE VOLTAGE(%)

FIG. 2 TYPICAL REVERSE CHARACTERISTICS

FIG. 4 TYPICAL FORWARD CHARACTERISTIC

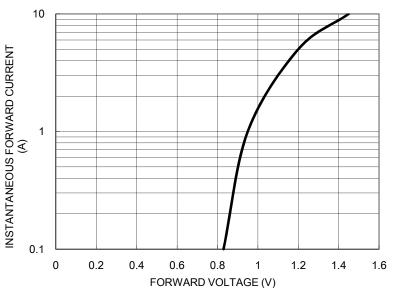


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

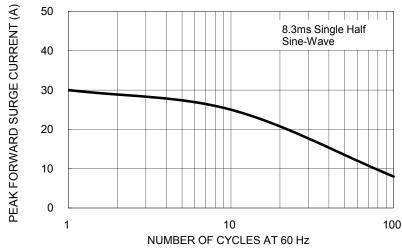
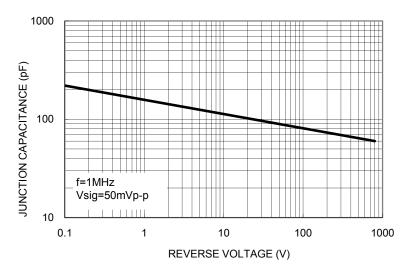
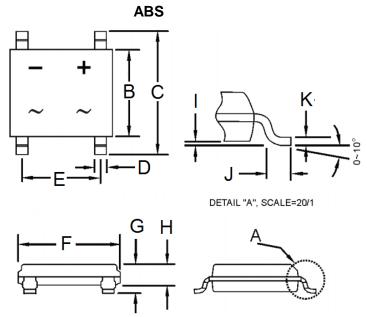




FIG. 5 TYPICAL JUNCTION CAPACITANCE

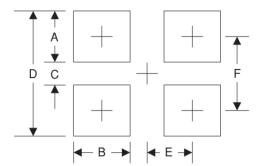






DIM.	Unit	(mm)	Unit (inch)		
	Min	Max	Min	Max	
В	4.30	4.50	0.169	0.177	
С	6.25	6.65	0.246	0.262	
D	0.60	0.70	0.024	0.028	
E	3.90	4.10	0.154	0.161	
F	4.90	5.10	0.193	0.200	
G	1.40	1.60	0.055	0.063	
Н	1.35	1.45	0.053	0.057	
I	0.05	0.15	0.002	0.006	
J	0.30	0.70	0.012	0.028	
К	0.15	0.25	0.006	0.010	

SUGGESTED PAD LAYOUT



P/N

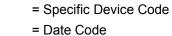
YW

F

Unit (mm) Unit (inch) Symbol А 1.5 0.059 В 0.9 0.035 4.22 0.166 С D 7.22 0.284 Е 2.05 0.081 F 5.72 0.225

MARKING DIAGRAM





= Factory Code



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