

# 1A, 200V - 1000V Glass Passivated Bridge Rectifiers

## **FEATURES**

- Glass passivated junction
- Ideal for automated placement
- Reliable low cost construction utilizing molded plastic technique
- High surge current capability
- 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









#### MECHANICAL DATA

Case: Molded plastic body

Molding compound, UL flammability classification rating 94V-0

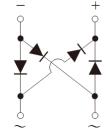
Moisture sensitivity level: level 1, per J-STD-020 Part no. with suffix "H" means AEC-Q101 qualified

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:** 0.12 g (approximately)

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MAXIMUM RATINGS AND ELECTRICAL CHAR	ACTERISTI	CS (T <sub>A</sub> =25	s°C unless	otherwise r	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 <sub>F(AV)</sub>			0.8 1.0			А
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	30				А	
Rating for fusing (t<8.3ms)	l <sup>2</sup> t	3.74				A <sup>2</sup> s	
Maximum instantaneous forward voltage (Note 1) $I_F$ = 0.4 A	V <sub>F</sub>	0.95				V	
Maximum reverse current @ rated $V_R$ $T_J$ =25°C $T_J$ =125°C	I <sub>R</sub>			10 150			μA
Typical thermal resistance	$R_{ heta JL} \ R_{ heta JA}$			25 80			°C/W
Operating junction temperature range	T <sub>J</sub>	- 55 to +150				°C	
Storage temperature range	T <sub>STG</sub>	- 55 to +150				°C	

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



ORDERING INFORMATION					
PART NO.	PART NO.	PACKING CODE	PACKING CODE	PACKAGE	PACKING
	SUFFIX		SUFFIX		
ABSxx	ш	RE	C	ABS	1,000 / 7" Plastic reel
(Note 1, 2)	11	RG	g	ABS	5,000 / 13" Paper reel

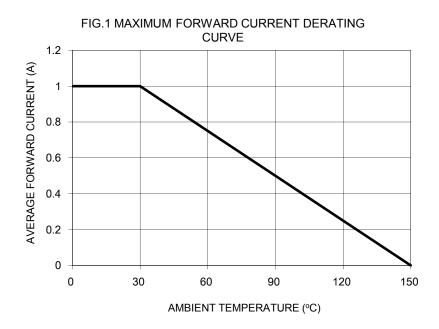
Note 1: "xx" defines voltage from 200V (ABS2) to 1000V (ABS10)

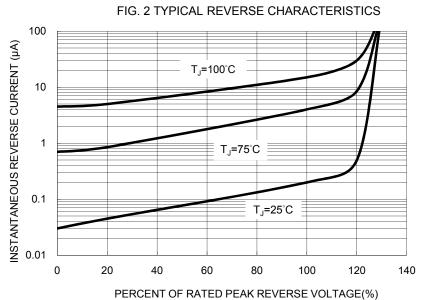
Note 2: Whole series with green compound

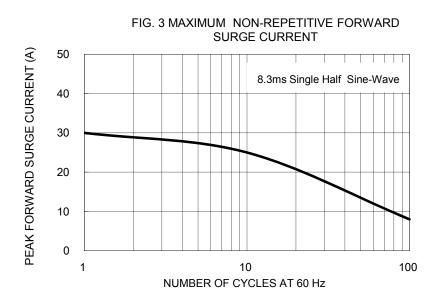
EXAMPLE					
PREFERRED P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
ABS8HREG	ABS8	Н	RE	G	AEC-Q101 qualified Green compound

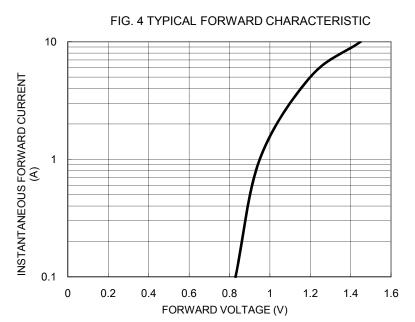
#### RATINGS AND CHARACTERISTICS CURVES

(T<sub>A</sub>=25°C unless otherwise noted)



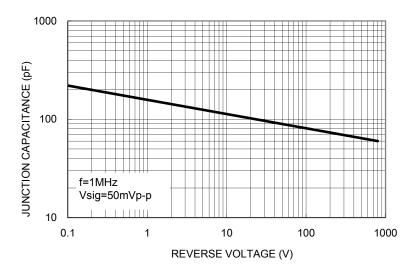




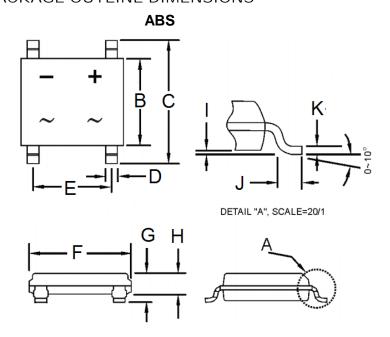




#### FIG. 5 TYPICAL JUNCTION CAPACITANCE

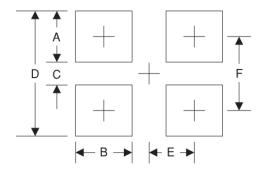


## PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (	(inch)	
DIIVI.	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	
Е	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	
K	0.15	0.25	0.006	0.010	

### SUGGESTED PAD LAYOUT



Symbol	Unit (mm)	Unit (inch)
Α	1.5	0.059
В	0.9	0.035
С	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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