



**Single Phase Glass Passivated
Fast Recovery Bridge Rectifiers**

**Reverse Voltage: 50V to 1000V
Forward Current: 1 Amp**

Features

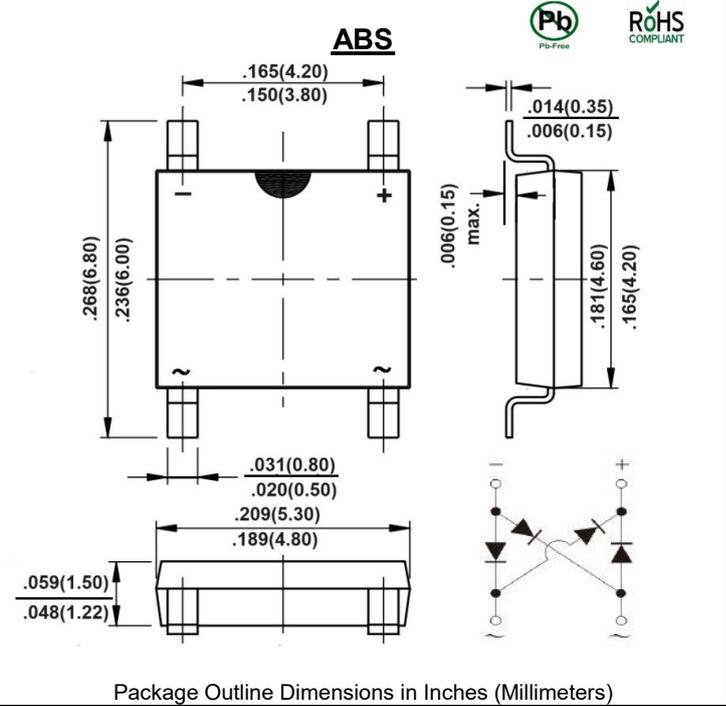
- Glass passivated chip junction
- Ideal for automated placement
- Low leakage current
- High forward surge capability
- Moisture sensitivity level: level 1, per J-STD-020

Mechanical Data

- **Package:** ABS
Molding compound meets UL 94 V-0 flammability rating
- **Terminals:** Matte tin plated leads,
solderable per MIL-STD-750, Method 2026
- **Polarity:** Symbol marking on body

Typical Applications

General purpose use in AC/DC bridge full wave rectification for monitor, TV, printer, switching mode power supply, adapter, audio equipment, and home appliances applications.



Maximum Ratings and Electrical Characteristics (Ta=25°C Unless otherwise specified)

Parameter & Test Conditions		SYM.	RABS05	RABS1	RABS2	RABS4	RABS6	RABS8	RABS10	Unit
Device marking code			RABS05	RABS1	RABS2	RABS4	RABS6	RABS8	RABS10	
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage		VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Output Rectified Current (see Fig. 1)	On glass-epoxy P.C.B (Note 1)	I _{O(AV)}	0.8						A	
	On aluminum substrate (Note 2)		1.0							
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed On Rated Load		I _{FSM}	30						A	
Operating junction range		T _J	-55 to +150						°C	
Storage temperature range		T _{STG}	-55 to +150						°C	

Thermal Characteristics (Ta=25°C Unless otherwise specified)

Parameter & Test Conditions		SYM.	RABS05	RABS1	RABS2	RABS4	RABS6	RABS8	RABS10	Unit
Maximum Thermal Resistance per Leg, Junction To Lead (Note 1)		R _{θJL}	25						°C/W	
Maximum Thermal Resistance per Leg, Junction To Ambient (Note 1)		R _{θJA}	62.5						°C/W	

Electrical Characteristics (Ta=25°C Unless otherwise specified)

Parameter & Test Conditions		SYM.	RABS05	RABS1	RABS2	RABS4	RABS6	RABS8	RABS10	Unit
Maximum reverse recovery time	IF=0.5A, IR=-1.0A, IRR=-0.25A	T _{rr}	150			250	500			ns
Maximum Instantaneous Forward Voltage per diode	IF= 1A	V _{FM}	1.30						V	
Maximum DC reverse current at rated DC blocking voltage per diode	TA = 25°C	I _R	5						µA	
	TA = 125°C		100							

Notes:

1. Units mounted on glass epoxy P.C.B. mounted on 0.05 x 0.05" (1.3 x 1.3mm) pads.
2. Units mounted on aluminum substrate P.C.B. with an area of 0.8" x 0.8" (20 x 20mm) mounted on 0.05 x 0.05" (1.3 x 1.3mm) solder pad.

Rating and Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED

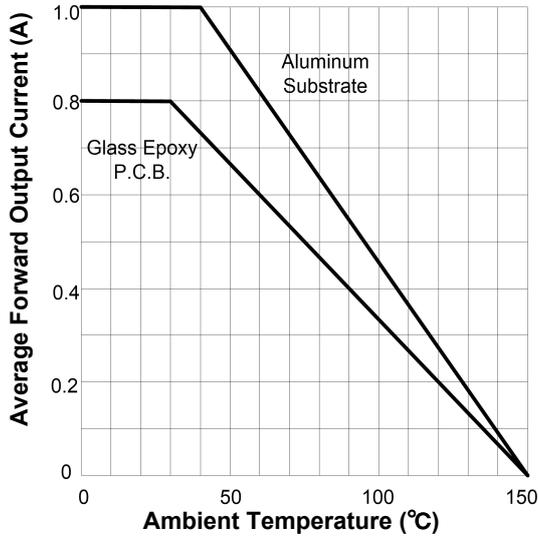


FIG. 2- -MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT Per Diode

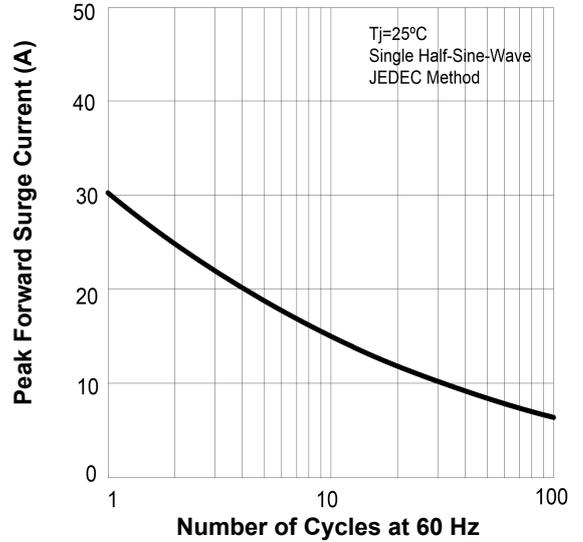


FIG. 3- TYPICAL FORWARD VOLTAGE

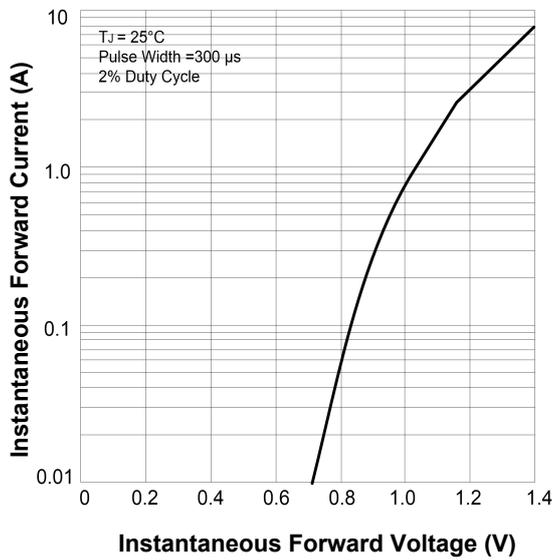
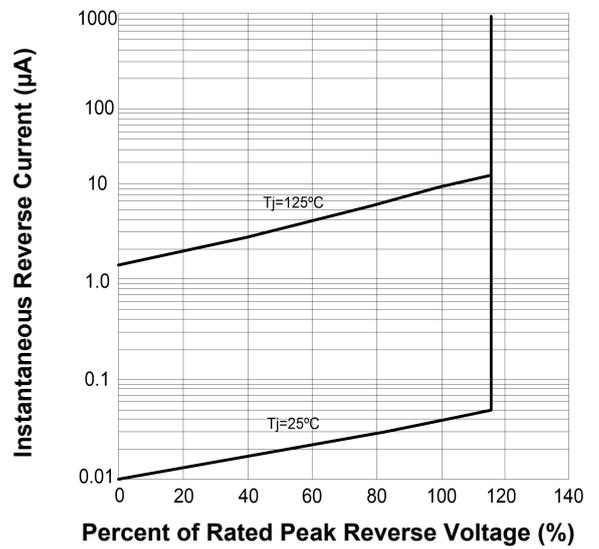
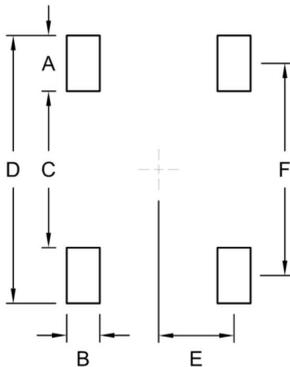


FIG. 4- TYPICAL REVERSE LEAKAGE CHARACTERISTICS



The curve above is for reference only.

Recommended 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

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