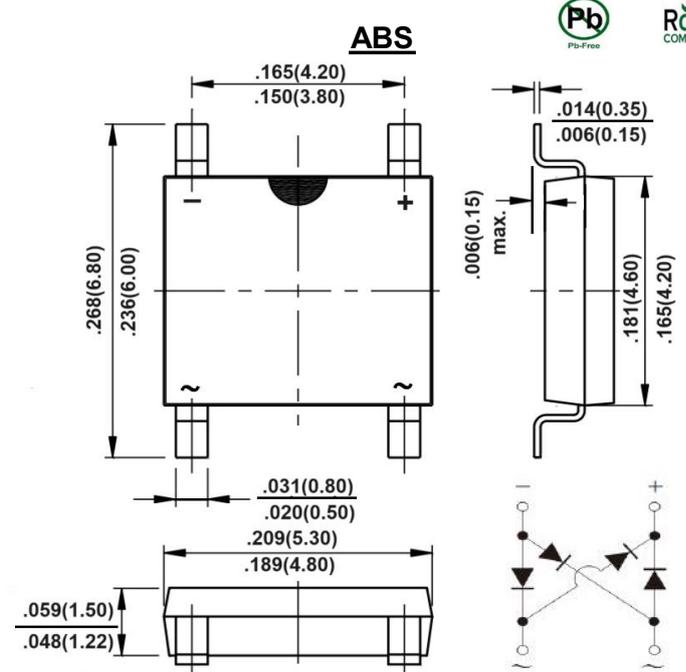


<b>Single Phase Glass Passivated Bridge Rectifiers</b>	<b>Reverse Voltage: 50V to 1000V</b> <b>Forward Current: 1 Amp</b>
<p><b>Features</b></p> <ul style="list-style-type: none"> <li>● Glass passivated chip junction</li> <li>● Ideal for automated placement</li> <li>● Low leakage current</li> <li>● High forward surge capability</li> <li>● Moisture sensitivity level: level 1, per J-STD-020</li> </ul> <p><b>Mechanical Data</b></p> <ul style="list-style-type: none"> <li>● <b>Package:</b> ABS Molding compound meets UL 94 V-0 flammability rating</li> <li>● <b>Terminals:</b> Matte tin plated leads, solderable per MIL-STD-750, Method 2026</li> <li>● <b>Polarity:</b> Symbol marking on body</li> </ul> <p><b>Typical Applications</b></p> <p>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.</p>	<div style="text-align: center;">  <p style="text-align: center;">Package Outline Dimensions in Inches (Millimeters)</p> </div> <div style="text-align: right; margin-top: 10px;">  </div>

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

Parameter&Test Conditions	SYM.	ABS05	ABS1	ABS2	ABS4	ABS6	ABS8	ABS10	Unit
Device marking code		ABS05	ABS1	ABS2	ABS4	ABS6	ABS8	ABS10	
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Output Rectified Current (see Fig. 1)	I <sub>O(AV)</sub>	On glass-epoxy P.C.B (Note 1)							A
		On aluminum substrate (Note 2)							
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed On Rated Load	I <sub>FSM</sub>	30							A
Operating junction range	T <sub>j</sub>	-55 to+150							°C
Storage temperature range	T <sub>STG</sub>	-55 to+150							°C

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

Parameter&Test Conditions	SYM.	ABS05	ABS1	ABS2	ABS4	ABS6	ABS8	ABS10	Unit
Maximum Thermal Resistance per Leg, Junction To Lead (Note 1)	R <sub>θJL</sub>	25							°C/W
Maximum Thermal Resistance per Leg, Junction To Ambient (Note 1)	R <sub>θJA</sub>	80							°C/W

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

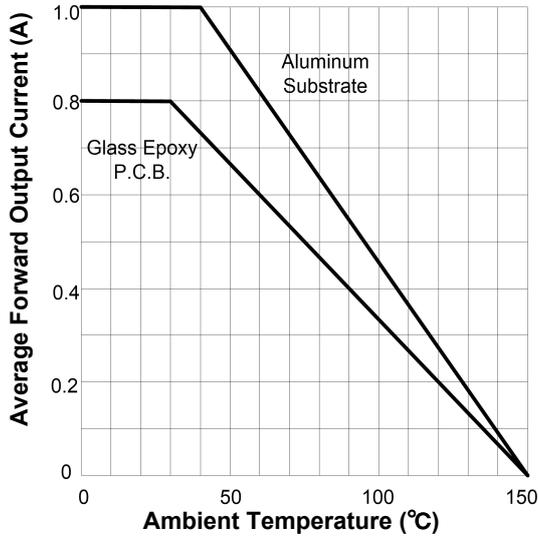
Parameter&Test Conditions	SYM.	ABS05	ABS1	ABS2	ABS4	ABS6	ABS8	ABS10	Unit
Maximum Instantaneous Forward Voltage per diode	IF= 0.4A V <sub>FM</sub>	0.95							V
Maximum DC reverse current at rated DC blocking voltage per diode	TA = 25°C	5							μA
	TA = 125°C	100							

Notes:

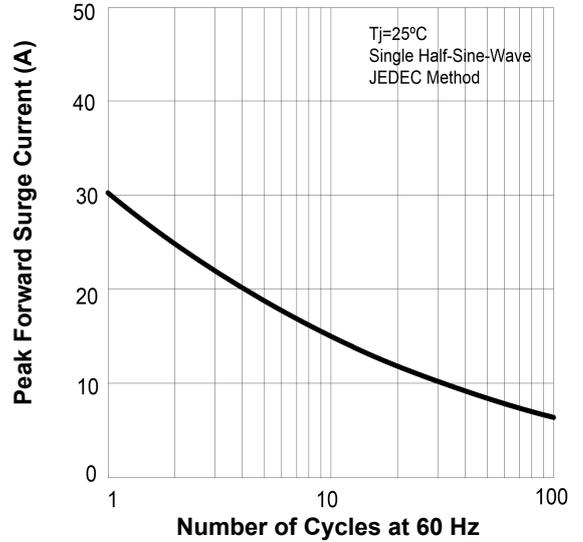
1. Units mounted on glass epoxy P.C.B. mounted on 0.05 x 0.05" (1.3 x 1.3mm) pads.
2. Units mounted on aluminum substrate P.C.B. with an area of 0.8" x 0.8" (20 x 20mm) mounted on 0.05 x 0.05" (1.3 x 1.3mm) solder pad.

**Rating and Characteristic Curves**

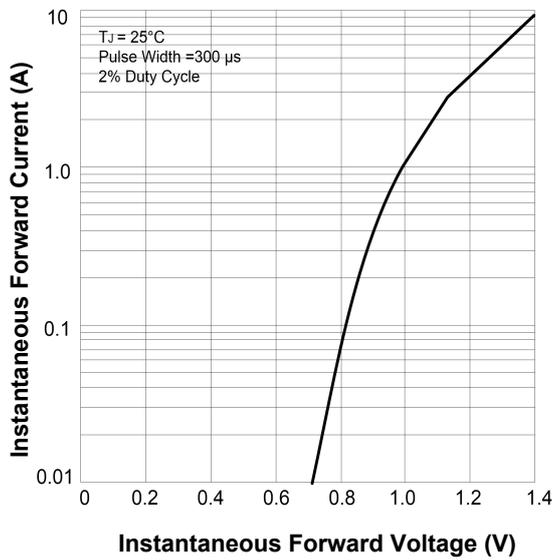
**FIG. 1- DERATING CURVE OUTPUT RECTIFIED**



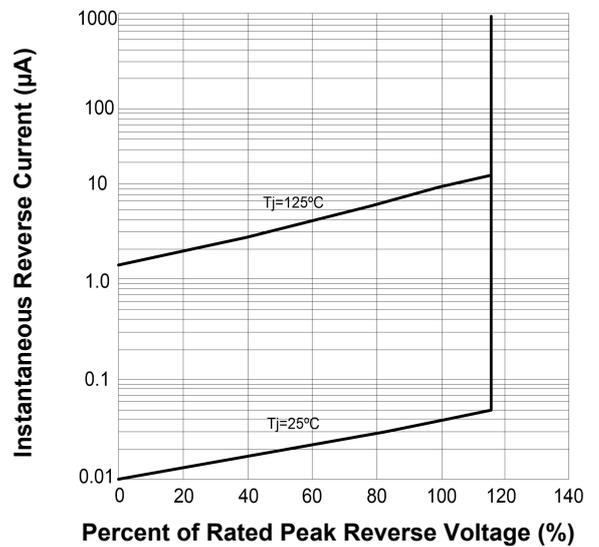
**FIG. 2- -MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT Per Diode**



**FIG. 3- TYPICAL FORWARD VOLTAGE**

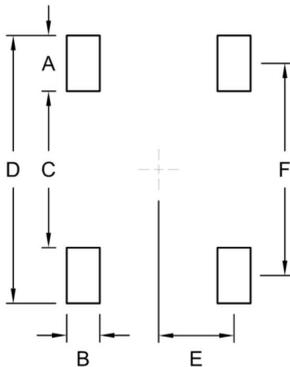


**FIG. 4- TYPICAL REVERSE LEAKAGE CHARACTERISTICS**



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

**Legal Disclaimer Notice**

All specifications are subject to be changed without notice to improve reliability function, design, etc. JUXIN makes no warranty, or guarantee regarding the suitability of the products for any purpose. To the extent permitted by applicable law, JUXIN disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement.

Statements regarding the suitability of products for certain types of applications are based on JUXIN's ideas of typical requirements that are often placed on JUXIN products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and specifications may differ applications and performance may vary over time.

All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify JUXIN's terms and conditions of purchase, including but not limited to the warranty expressed therein. Except as expressly indicated in writing, JUXIN products are not designed for use in medical, life saving, or life-sustaining applications or for any other applications in which the failure of the JUXIN product could result in personal injury or death. Customers using or selling JUXIN products not expressly indicated for use in such applications do so at their own risk. Please contact authorized JUXIN personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by forbid or otherwise, to any intellectual property rights is granted by this document or by any conduct of JUXIN. Product names and markings noted herein may be trademarks of their respective owners.