

## Single Phase 2.0 AMP. Glass Passivated Bridge Rectifiers



### FEATURES

- ✧ Glass passivated junction
- ✧ Ideal for printed circuit board
- ✧ Reliable low cost construction utilizing molded plastic technique
- ✧ High temperature soldering guaranteed: 260°C / 10 seconds / 0.375" ( 9.5mm ) lead length at 5 lbs., ( 2.3 kg ) tension
- ✧ Small size, simple installation  
Pure tin plated terminal , Lead free. Leads solderable per MIL-STD-202, Method 208
- ✧ High surge current capability

### MECHANICAL DATA

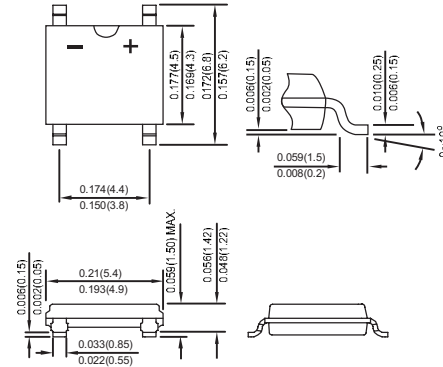
- ✧ Case: Molded plastic body
- ✧ Mounting position : as Marking
- ✧ Weight: 0.12 grams

### VOLTAGE RANGE

1000 Volts

### CURRENT

2.0 Ampere



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

CHARACTERISTICS		RABS210	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	1000	V
Maximum Average Forward Rectified Current @T <sub>A</sub> =40°C	I <sub>(AV)</sub>	2.0	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC .Method)	I <sub>FSM</sub>	60	A
Maximum Forward Voltage at 1.0A DC	V <sub>F</sub>	1.3	V
Maximum DC Reverse Current @T <sub>J</sub> =25°C	I <sub>R</sub>	10	μA
at Rated DC Blocking Voltage @T <sub>J</sub> =125°C		500	
I <sup>2</sup> t Rating for Fusing (t<8.3ms)	I <sup>2</sup> t	14.94	A <sup>2</sup> s
Maximum Reverse Recovery T <sub>rr</sub> ns (Note1)	T <sub>RR</sub>	500	ns
Typical Junction capacitance Per Element(Note2)	C <sub>J</sub>	25	pF
Typical Thermal Resistance (Note3)	R <sub>θJA</sub>	40	°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to +150	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150	°C

Note:1. Reverse Recovery Test Conditions: I<sub>F</sub>=0.5A, I<sub>R</sub>=1.0A, I<sub>RR</sub>=0.25A.

2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC

3. Thermal resistance from junction to ambient mounted on P.C.B with 0.5\*0.5"(13\*13mm) copper pads.

4. The typical data above is for reference only(典型值仅供参考).

## RATING AND CHARACTERISTIC CURVES RABS210

FIG.1-DERATING CURVE FOR  
OUTPUT RECTIFIED CURRENT

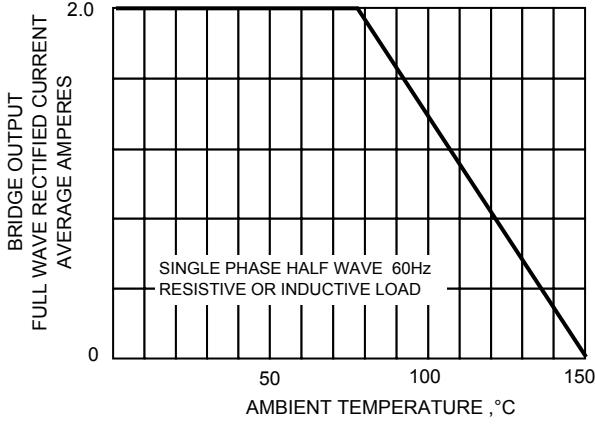


FIG.2-MAXIMUM NON-REPETITIVE PEAK  
FORWARD SURGE CURRENT

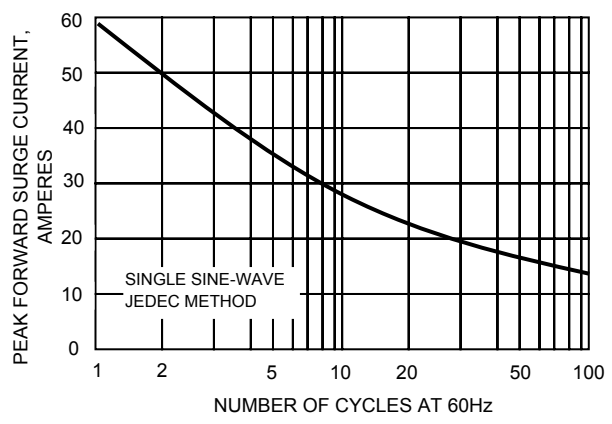


FIG.3-TYPICAL JUNCTION CAPACITANCE

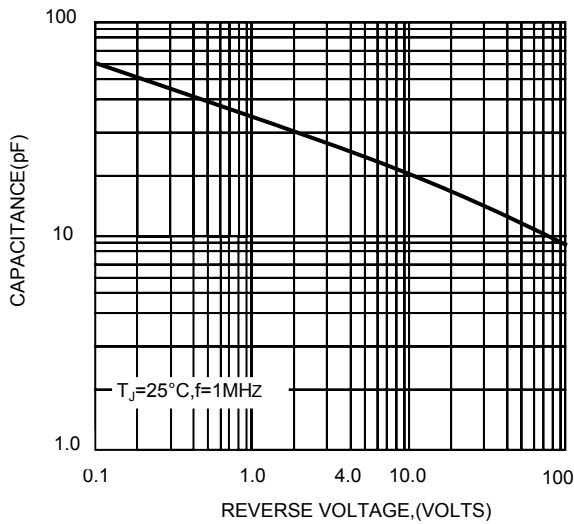


FIG.4-TYPICAL FORWARD CHARACTERISTICS

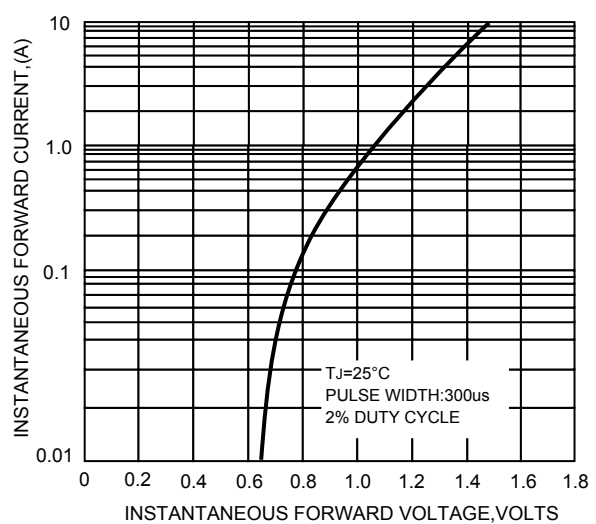
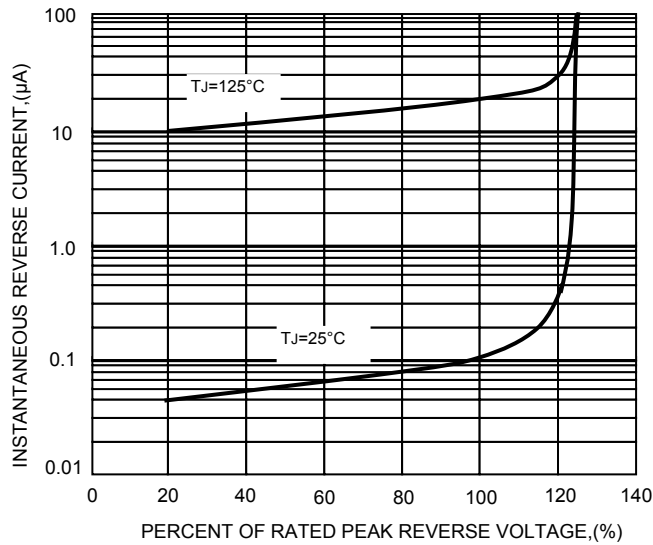


FIG.5-TYPICAL REVERSE CHARACTERISTICS



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!