

Pb Free Plating Product

## ABS210

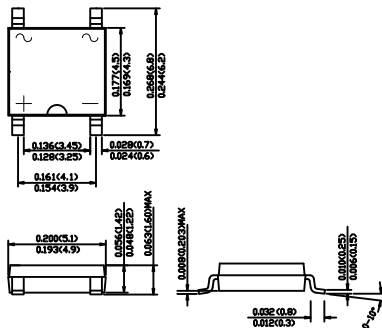


### 2.0 Ampere Surface Mount Miniature Bridge Rectifier

#### SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

Voltage Range - 1000 Volts Current - 1.6/2.0 Ampere

ABS



Dimensions in inches and (millimeters)

#### FEATURES

- ▶ Ideal for printed circuit board
- ▶ Reliable low cost construction utilizing molded plastic technique
- ▶ High temperature soldering guaranteed: 260°C/10 seconds at 5 lbs., (2.3kg) tension
- ▶ Small size, simple installation
- ▶ High surge current capability
- ▶ Glass passivated chip junction

#### MECHANICAL DATA

**Case:** Molded plastic body

**Terminals:** Plated leads solderable per MIL-STD-750, Method 2026

**Polarity:** Polarity symbols marked on case

**Mounting Position:** Any

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load derate current by 20%.

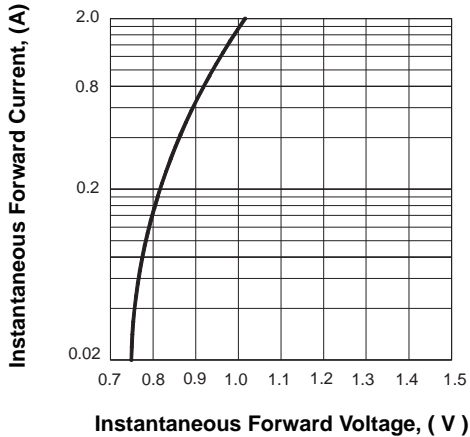
	SYMBOLS	ABS210	UNITS
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	1000	VOLTS
Maximum RMS voltage	V <sub>RMS</sub>	700	VOLTS
Maximum DC blocking voltage	V <sub>DC</sub>	1000	VOLTS
Maximum average forward rectified current			
On glass-epoxy P.C.B.(Note1)	I <sub>F(AV)</sub>	1.6	Amps
On aluminum substrate(Note2)		2.0	
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	60	Amps
Maximum instantaneous forward voltage drop per leg at 0.8A	V <sub>F</sub>	0.95	Volts
Maximum DC reverse current			
at rated DC blocking voltage T <sub>A</sub> =25°C	I <sub>R</sub>	5	uA
T <sub>A</sub> =100°C		100	uA
Operating temperature range	T <sub>J</sub>	-55 to +150	°C
storage temperature range	T <sub>STG</sub>	-55 to +150	°C

NOTES:1.On glass epoxy P.C.B. mounted on 0.05x0.05"(1.3x1.3mm) pads

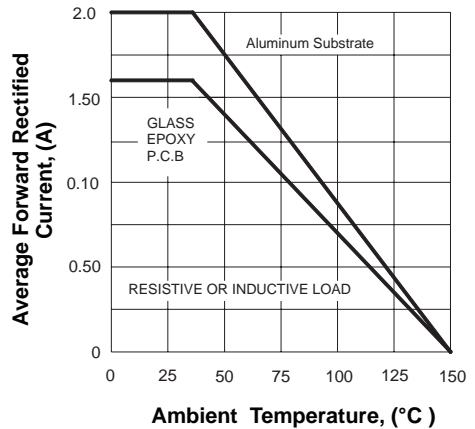
2.On aluminum substrate P.C.B. with on area of 0.8"x0.8"(20x20mm) mounted on 0.05X0.05"(1.3X1.3mm) solder pad

## RATINGS AND CHARACTERISTIC CURVES ABS210

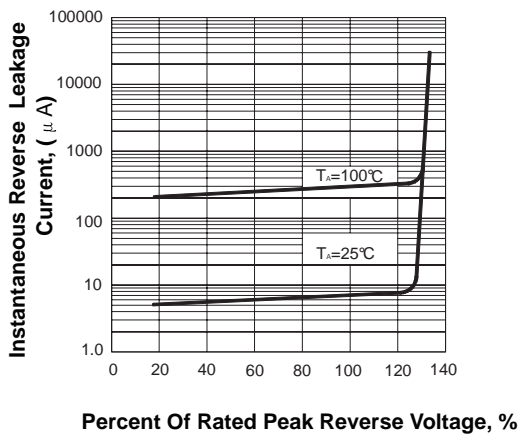
**FIG.1 TYPICAL FORWARD CHARACTERISTICS**



**FIG.2 FORWARD DERATING CURVE**



**FIG.3 TYPICAL REVERSE CHARACTERISTICS**



**FIG.4 PEAK FORWARD SURGE CURRENT**

