

Pb Free Plating Product

ABS210

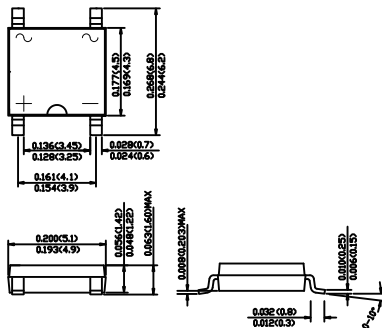


2.0 Ampere Surface Mount Miniature Bridge Rectifier

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 _{RRM}	1000	VOLTS
Maximum RMS voltage	V _{RMS}	700	VOLTS
Maximum DC blocking voltage	V _{DC}	1000	VOLTS
Maximum average forward rectified current			
On glass-epoxy P.C.B.(Note1)	I _{F(AV)}	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 _{FSM}	60	Amps
Maximum instantaneous forward voltage drop per leg at 0.8A	V _F	0.95	Volts
Maximum DC reverse current			
at rated DC blocking voltage T _A =25°C	I _R	5	uA
T _A =100°C		100	uA
Operating temperature range	T _J	-55 to +150	°C
storage temperature range	T _{STG}	-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

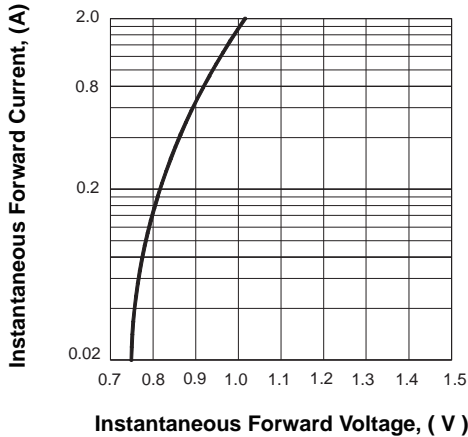


FIG.2 FORWARD DERATING CURVE

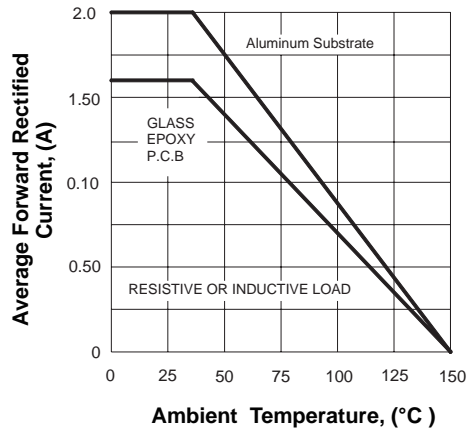


FIG.3 TYPICAL REVERSE CHARACTERISTICS

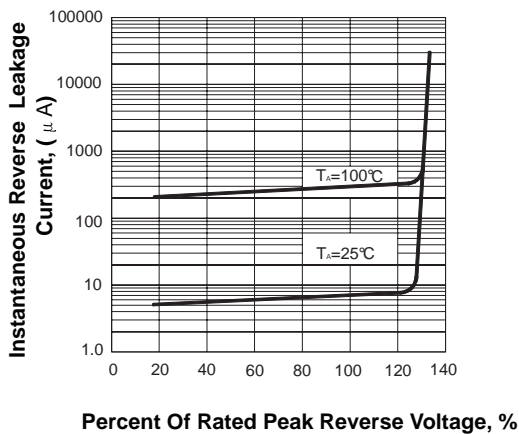


FIG.4 PEAK FORWARD SURGE CURRENT

