

**2A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER**

**FEATURES:**

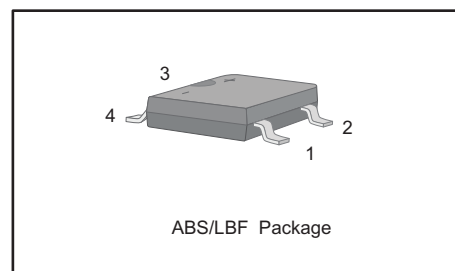
- Glass Passivated Chip Junction
- Reverse Voltage - 1000 V
- Forward Current - 2 A
- High Surge Current Capability
- Designed for Surface Mount Application

**MECHANICAL DATA**

- Case: ABS/LBF
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 88mg/0.0031oz

**PINNING**

PIN	DESCRIPTION
1	Input Pin ( ~ )
2	Input Pin ( ~ )
3	Output Anode ( + )
4	Output Cathode ( - )



**Maximum Ratings and Electrical characteristics**

Ratings at 25 °C ambient temperature unless otherwise specified.

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

Parameter	Symbols	ABS210A	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	1000	V
Maximum RMS voltage	$V_{RMS}$	700	V
Maximum DC Blocking Voltage	$V_{DC}$	1000	V
Average Rectified Output Current at $T_C=115\text{ }^{\circ}\text{C}$	$I_O$	2.0	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	70	A
Forward Voltage per element @ $I_F=2.0\text{A}$	$V_F$	1.0	V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ $T_A=25\text{ }^{\circ}\text{C}$ @ $T_A=125\text{ }^{\circ}\text{C}$	$I_R$	5.0 100	$\mu\text{A}$
Typical Junction Capacitance ( Note1 )	$C_j$	25	pF
Typical Thermal Resistance ( Note2 )	$R_{\theta JA}$ $R_{\theta JC}$	60 16	$^{\circ}\text{C/W}$
Operating and Storage Temperature Range	$T_j$ $T_{stg}$	-55 ~ +150	$^{\circ}\text{C}$

Note: 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.

2. Mounted on glass epoxy PC board with 4× 1.5" × 1.5" ( 3.81 × 3.81 cm ) copper pad.



Fig.1 Average Rectified Output Current Derating Curve

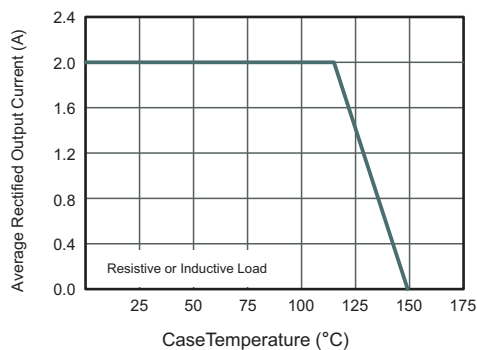


Fig.2 Typical Reverse Characteristics

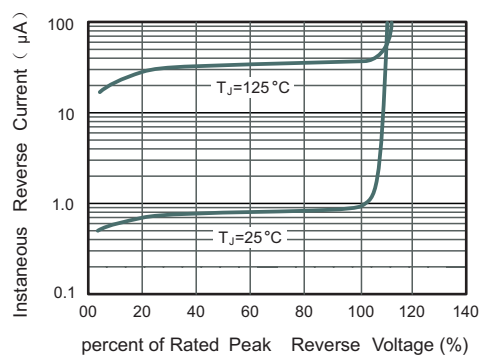


Fig.3 Typical Instantaneous Forward Characteristics

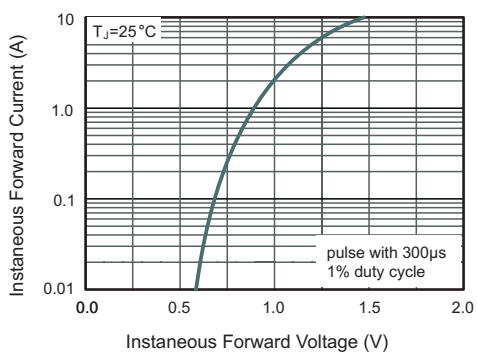


Fig.4 Typical Junction Capacitance

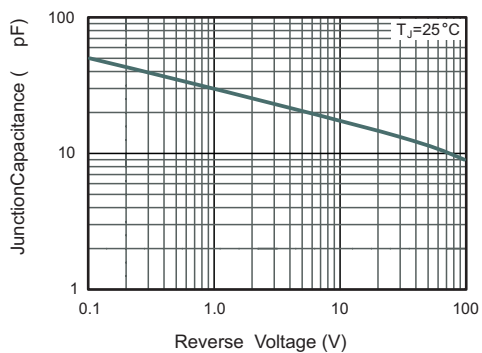
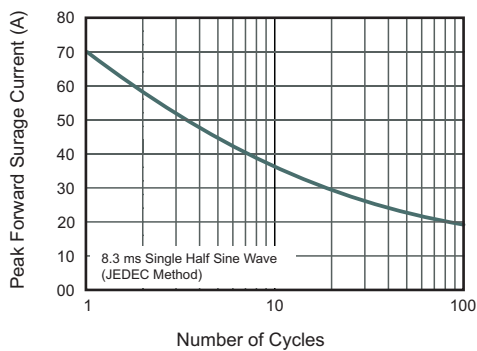


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

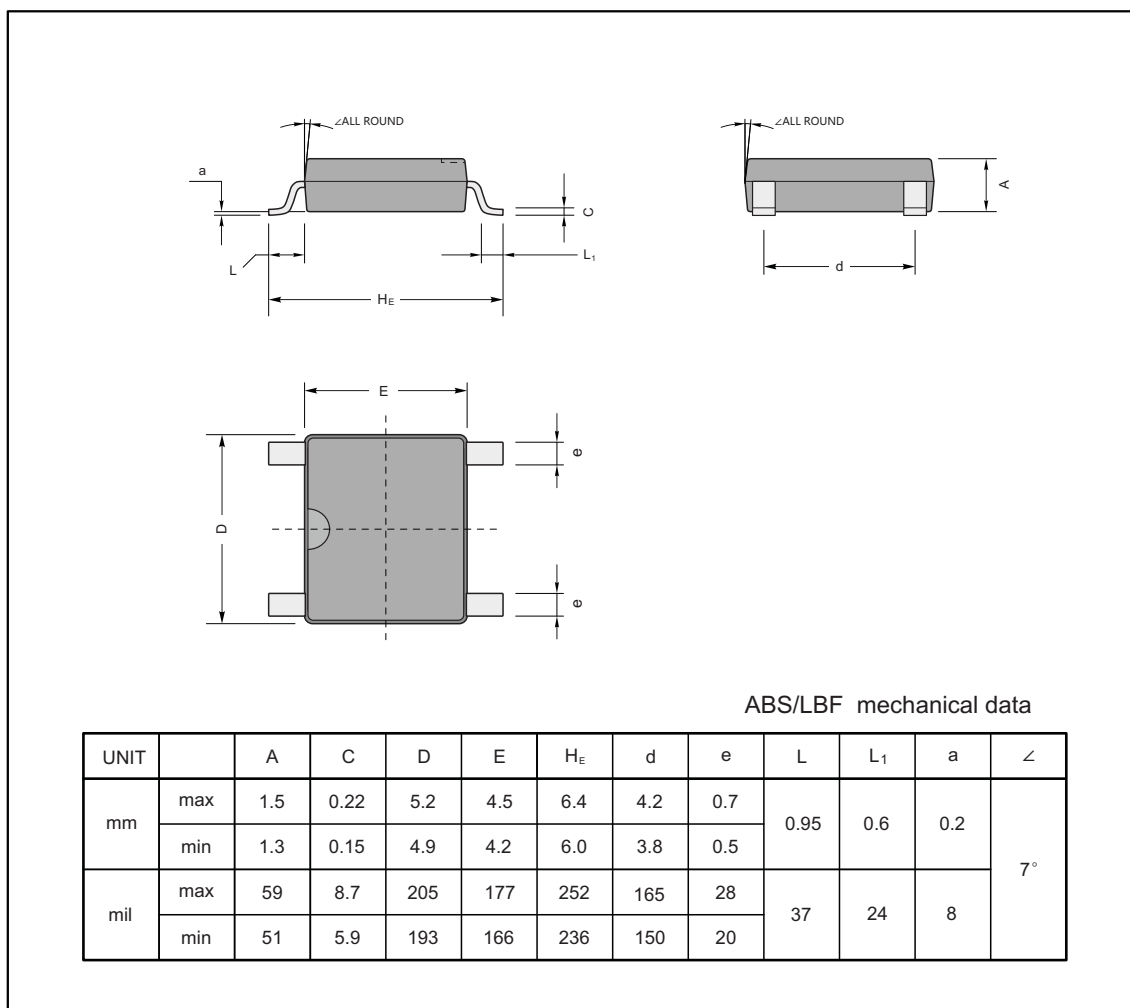




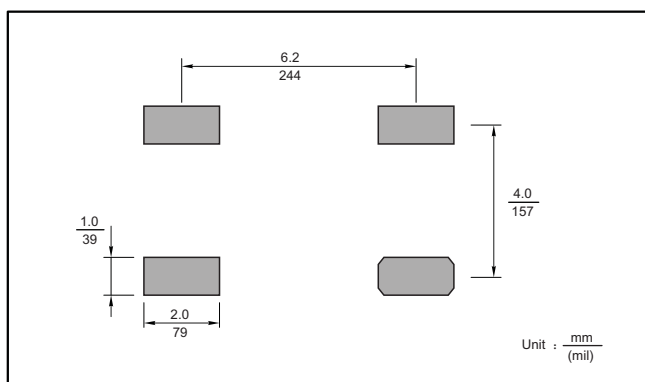
### PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

ABS/LBF



### The recommended mounting pad size



### Marking

Type number	Marking code
ABS210A	ABS210A