

**GLASS PASSIVATED
SURFACE MOUNT BRIDGE RECTIFIER**

**REVERSE VOLTAGE – 1000 Volts
FORWARD CURRENT – 2 Ampere**

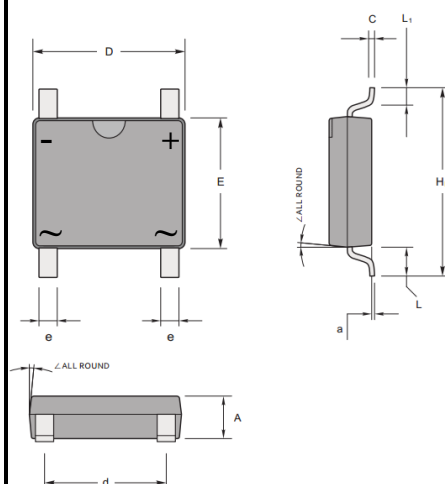
FEATURES

- Glass Passivated Chip Junction
- Reverse Voltage – 1000 V
- Forward Current – 2A
- High Surge Current Capability
- Designed for Surface Mount Application
- UL recognized file#E364304

MECHANICAL DATA

- Case Material: ABS
- Case Material: Green molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl.)
- Terminals: Solderable per MIL-STD-750, Method 2026
- Weight: 88 mg (Approximate)

ABS



ABS		
DIM	MIN	MAX
A	1.30	1.50
C	0.15	0.22
D	4.90	5.20
E	4.20	4.50
HE	6.00	6.40
d	3.80	4.20
e	0.50	0.70
L1	0.60	
∠	7° TYP.	
∠	7° TYP.	
All dimension in millimeter		

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

PARAMETER	SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	1000	V
Maximum DC blocking voltage	V_{DC}	1000	V
Average rectified output current per device @ $T_C=115^{\circ}\text{C}$	$I_{(AV)}$	2	A
Peak forward surge current single half sine-wave superimposed on rated load @ $t=8.3\text{ms}$ @ $t=1.0\text{ms}$	I_{FSM}	60 120	A
$I^2 t$ rating for fusing ($t = 8.3\text{ms}$)	$I^2 t$	14.9	A^2S
Operating and storage temperature range	T_J, T_{STG}	-55 to +150	$^{\circ}\text{C}$

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITION	SYMBOL	MAX.	UNIT
Forward voltage (Note1)	$I_F = 1\text{A}$ $I_F = 2\text{A}$ $T_A = 25^{\circ}\text{C}$	V_F	0.95 1.1	V
Leakage current	$V_R = 1000\text{V}$ $T_A = 25^{\circ}\text{C}$ $T_A = 125^{\circ}\text{C}$ (Note1)	I_R	5 100	μA
Typical junction capacitance (Note 2)		C_J	25	pF

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	TYP.	UNIT
Typical thermal resistance (Note 3)	R_{thJA} R_{thJC}	60 16	$^{\circ}\text{C/W}$

Note :

- (1) Perform static test after the temperature of oven is steady 20 minutes.
- (2) Measured at 1.0MHz and applied reverse voltage of 4.0V DC
- (3) Thermal resistance junction to case, lead and ambient in accordance with JESD-51.
Unit Mounted on glass epoxy PC board with 4×1.5"×1.5" (3.81×3.81 cm) copper pad.

REV.3, Aug.-2018,KBDA48

RATING AND CHARACTERISTIC CURVES ABS210

LITEON

FIG.1- FORWARD CURRENT DERATING CURVE

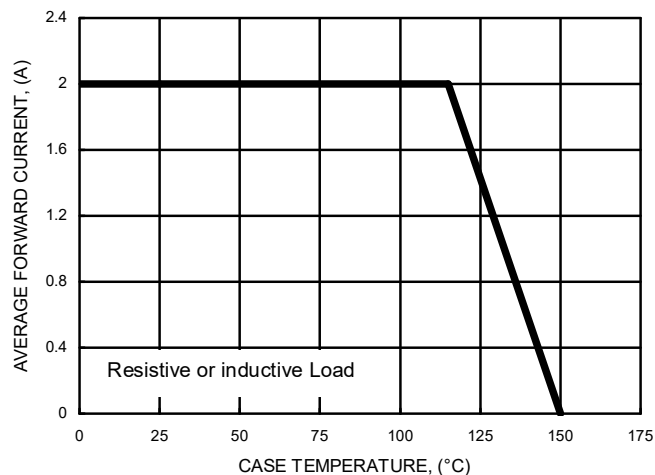


FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT



FIG.3- TYPICAL FORWARD CHARACTERISTICS

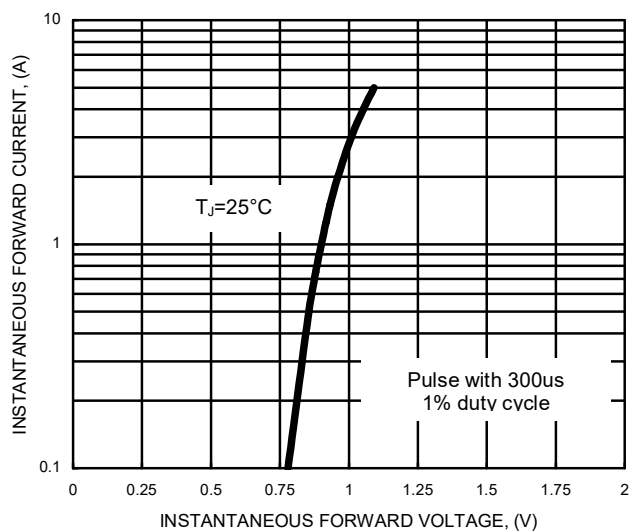


FIG.4- TYPICAL JUNCTION CAPACITANCE

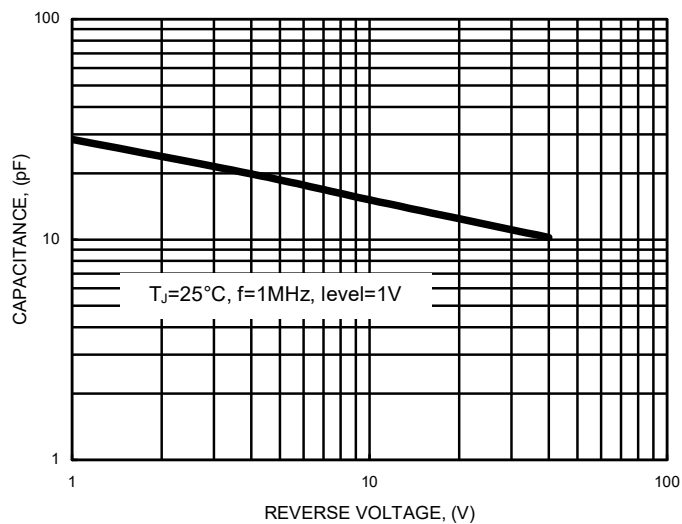
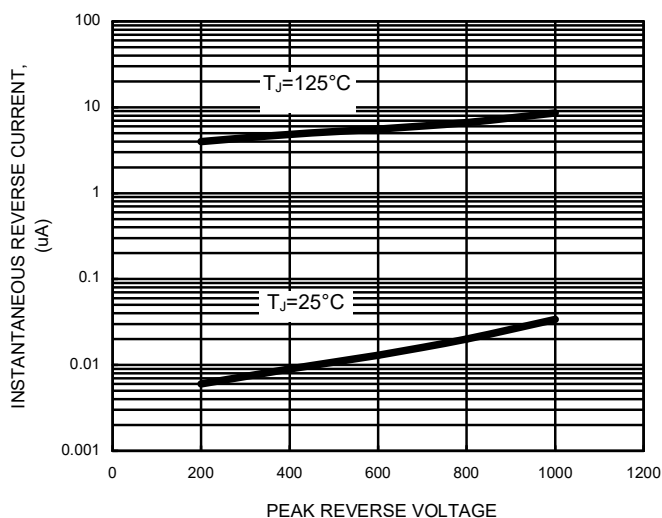


FIG.5- TYPICAL REVERSE CHARACTERISTICS



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