



GLASS PASSIVATED BRIDGE RECTIFIER

REVERSE VOLTAGE – 1000 Volts FORWARD CURRENT – 4.0 Amperes

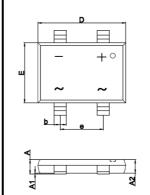
FEATURES

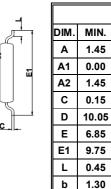
- · Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- UL recognized file#E364304

MECHANICAL DATA

- Case Material: "Green" molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl.) "Halogen-free".
- Polarity: As marked on the body
- Weight: 389m grams (Approximate)

<u>TT</u>





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4.90 5.00 5.10
All dimension in millimetres.

TT

TYP.

1.65

0.10

1.55

0.25

10.20

7.00

9.90

0.70

1.40

MAX.

1.80

0.15

1.65

0.35

10.35

7.15

10.05

0.95

1.50

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

PARAMETER Maximum repetitive peak reverse voltage Maximum DC blocking voltage		SYMBOL	1000 1000	UNIT
		V _{RRM} V _{DC}		V
				V
Average rectified output current per device	@T _A = 25°C (Note3)	I _(AV)	4.0	А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	@ T _A =25°C @ T _A =125°C (Note1)	I _{FSM}	120 96	А
Peak forward surge current 1ms single half sine-wave superimposed on rated load	@ T _A =25°C @ T _A =125°C (Note1)	I _{FSM}	240 192	А
I ² trating for fusing (t = 8.3ms)		l²t	59.7	A ² S
Operating and storage temperature range		T _J ,T _{STG}	-55 to +150	°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST	CONDITION	SYMBOL	TYP.	MAX.	UNIT
Forward voltage (Note1)	I _F = 2A	T _A = 25°C T _A = 125°C (Note1)	VF	0.91 0.80	1.0 	V
Leakage current	V _R = 1000V	T _A = 25°C T _A = 125°C (Note1)	I _R	0.06 19	5 200	uA
Typical junction capacitance (Note2)			C _J 35		pF	

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	TYP.	UNIT
	RthJc	8	
Typical Thermal Resistance (without Heatsink)	RthJ∟	10	°C/W
, , , , , , , , , , , , , , , , , , , ,	$RthJ_A$	60	
	RthJc	3	
Typical thermal resistance (Note3)	RthJ∟	6	°C/W
	$RthJ_A$	15	

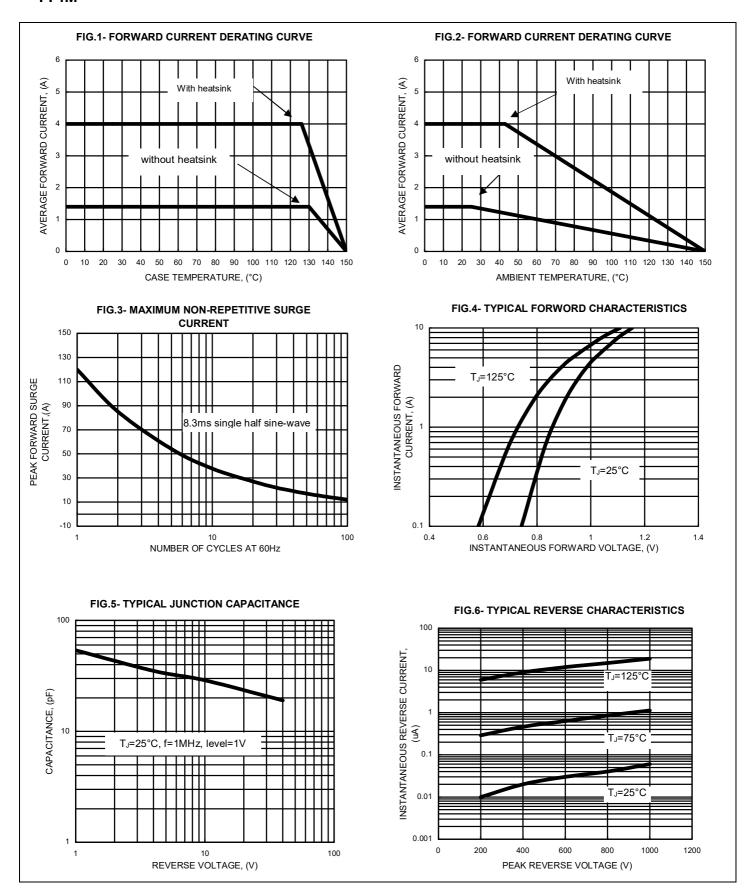
Note:

- (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 15mmx12mmx1.6mm AL Pad attached on 40mmx30mmx24mm Fin heatsink.

REV.2, Oct-2019, KBDA50

RATING AND CHARACTERISTIC CURVES TT4M







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