

TT410

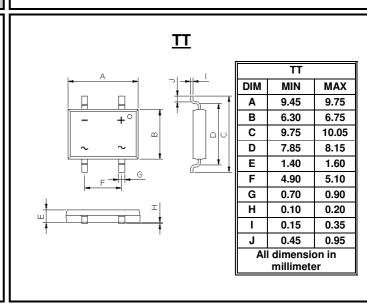
GLASS PASSIVATED BRIDGE RECTIFIER

FEATURES

- · Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- UL recognition 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: 297m grams (Approximate)



REVERSE VOLTAGE – 1000 Volts

FORWARD CURRENT – 4.0 Amperes

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 _A = 25°C (Note1)	I _(AV)	I _(AV) 4.0	
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 t rating for fusing (t = 8.3ms)		l ² t	59	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	$\begin{array}{l} T_{\text{A}} = 25^{\circ}C \\ T_{\text{A}} = 125^{\circ}C \ (\text{Note1}) \end{array}$	V _F	0.91 0.80	1.0	V
Leakage current	V _R = 1000V	$\begin{array}{l} T_{A}=25^{\circ}C\\ T_{A}=125^{\circ}C \ (\text{Note1}) \end{array}$	I _R	0.15 55	5 500	uA
Typical junction capacitance (Note2)		CJ	40		pF	

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	ТҮР.	UNIT
Typical thermal resistance (Note3)	RthJ _C RthJ∟ RthJ _A	3 8 13	°C/W
Note :	REV. 1, Nov-2016, KBI	REV. 1, Nov-2016, KBDA47	

(1) Perform static test after the temperature of oven is steady 20 minutes.

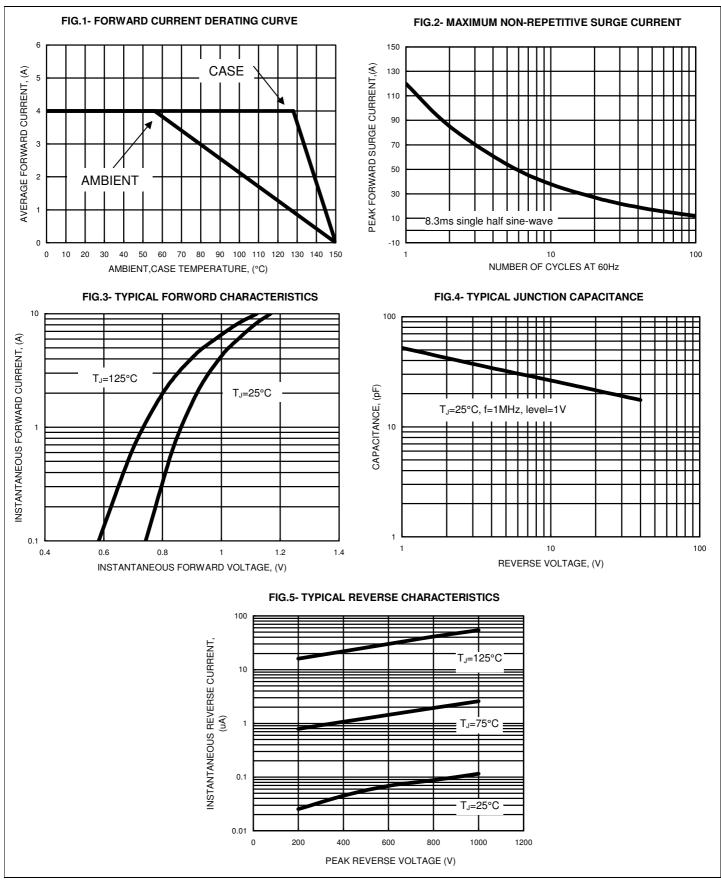
(2) Measured at 1.0MHz and applied reverse voltage of 4.0V DC

(3) Thermal resistance junction to case, lead and ambient in accordance with JESD-51.

Unit mounted on 15mmx12mmx1.6mm AL Pad attached on 100mmx75mmx27mm Fin heatsink.

RATING AND CHARACTERISTIC CURVES TT410

LITEON



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