



GLASS PASSIVATED BRIDGE RECTIFIER

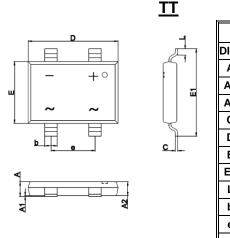
REVERSE VOLTAGE – 600 Volts FORWARD CURRENT – 8.0 Amperes

FEATURES

- · Ideal for printed circuit board
- Reliable construction utilizing molded plastic technique
- UL recognized file#E364304
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)

MECHANICAL DATA

- Package Material: "Green" molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl.) "Halogen-free".
- Polarity: As marked on the bodyWeight: 0.389 grams (Approximate)
- · Marking: TT8JL



	т					
DIM.	MIN.	TYP.	MAX.			
Α	1.45	1.65	1.80			
A 1	0.00	0.10	0.15			
A2	1.45	1.55	1.65			
С	0.15	0.25	0.35			
D	10.05	10.20	10.35			
Е	6.85	7.00	7.15			
E1	9.75	9.90	10.05			
L	0.45	0.70	0.95			
b	1.30	1.40	1.50			
е	4.90	5.00	5.10			
All dimension in millimeters.						

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}	600	V
Maximum DC blocking voltage		V_{DC}	600	V
Average rectified output current per device	@T _A = 25°C (Note 4)	I _(AV)	8.0	А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	@ T _A =25°C @ T _A =125°C	I _{FSM}	165 130	А
Peak forward surge current 1ms single half sine-wave superimposed on rated load	@ T _A =25°C @ T _A =125°C	I _{FSM}	330 260	А
I ² t rating for fusing (t = 8.3ms)		l ² t	115	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 (Note 4)	I _F = 4A	$T_A = 25^{\circ}C$ $T_A = 125^{\circ}C$	V _F	0.84 	0.9 	V
Leakage current	V _R = 600V	$T_A = 25^{\circ}C$ $T_A = 125^{\circ}C$	I _R	0.03	5 	uA
Typical junction capacitance (Note 5)		Ст	85		pF	

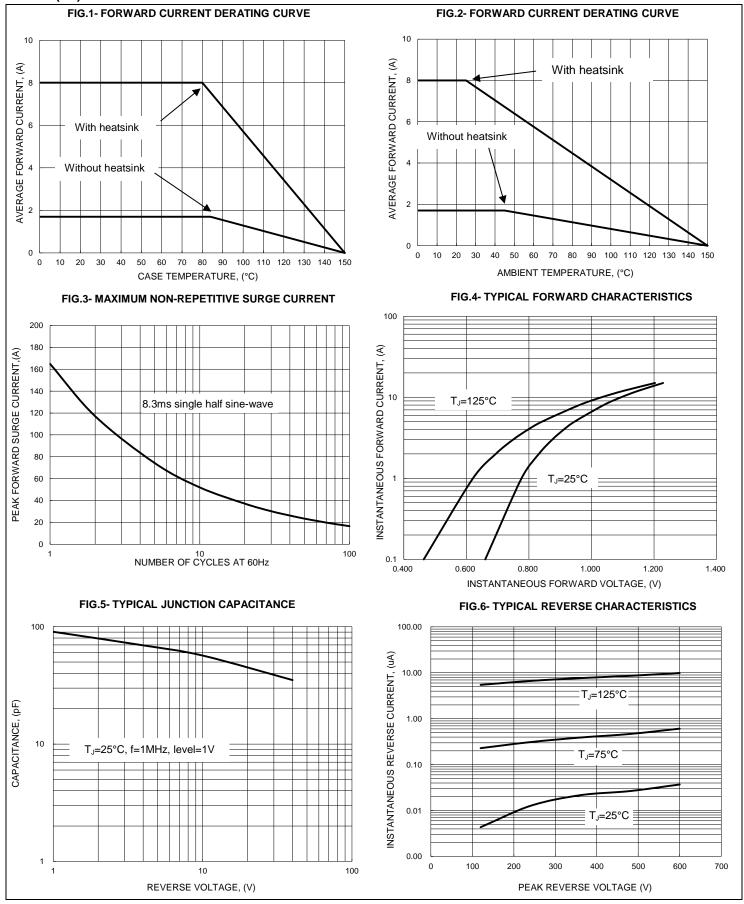
THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	TYP.	UNIT		
	R _{thJC}	22			
Typical Thermal Resistance (without Heatsink)	R _{thJL}	10	°C/W		
	R _{thJA}	35			
	R _{thJC}	5			
Typical thermal resistance (Note 6)	R _{thJL}	7	°C/W		
	R	Q			

Note:

- 1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.
- 2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
- 3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 4. Perform static test after the temperature of oven is steady 20 minutes.
- 5. Measured at 1.0MHz and applied reverse voltage of 4.0V DC
- 6. Thermal resistance junction to case, lead and ambient in accordance with JESD-51. Unit mounted on 60mmx48mmx1.6mm AL Pad attached on 170mmX170mmX43mm copper plate

RATING AND CHARACTERISTIC CURVES TT8JL(LS)

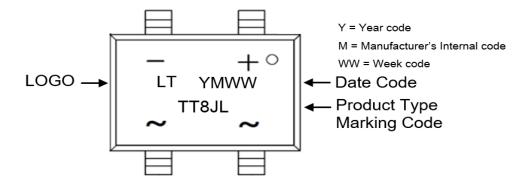




Ordering Information:

Part Number	Package	Packing		
Fait Number	Package	Qty.	Carrier	
TT8JL_HF	TT	1500	Tape & Reel	

Marking Information:





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