



Product Summary

V _{RRM} (V)	IF (A)	V _F Max (V) @ I _F = 4A	I _R Max (μA)
600	8	0.9	5

Mechanical Data

- Package: TTL
- Package Material: "Green" Molding Compound, UL Flammability Classification 94V-0, (No Br. Sb. Cl.).
- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Finish Matte Tin Plated Leads, Solderable per MIL-STD-202, Method 208 (2)
- Polarity Indicator: As Marked on The Body
- Weight: 0.41 grams (Approximate)



Ordering Information (Note 4)

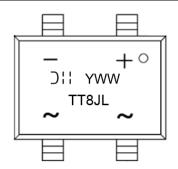
	Part Number	Qualification	Baakaga	Packing		
	Fait Nulliber	Qualification	Package	Qty.	Carrier	
	TT8JL-13	Commercial	TTL	1500	Reel	
Notes:	Notes: 1. EU Directive 2002/95/EC (RoHS). 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.					

EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.
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. For packaging details, go to our website at https://www.diodes.com/design/support/packaging/diodes-packaging/.

Marking Information



TT8JL = Product Type Marking Code \Im !! = Manufacturers' Code Marking YWW = Date Code Marking Y = Last Digit of Year (ex: 1 = 2021) WW = Week Code (01 to 53)

Features

- Glass Passivated Die Construction
- Ideal for Printed Circuit Board
- Reliable Low Cost Construction Utilizing Molded Plastic Technique
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)
- For automotive applications requiring specific change control (i.e. parts qualified to AEC-Q100/101/200, PPAP capable, and manufactured in IATF 16949 certified facilities), please <u>contact</u> <u>us</u> or your local Diodes representative.

https://www.diodes.com/quality/product-definitions/





Maximum Ratings (@T_A = +25°C, unless otherwise specified.)

Characteristic		Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	600	V
Maximum DC Blocking Voltage		V _{DC}	600	V
Average Rectified Output Current	@T _A = +25°C (Note 5)	I _{F(AV)}	8.0	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave	@T _A = +25°C @T _A = +125°C	IFSM	165 130	А
Peak Forward Surge Current 1.0ms Single Half Sine-Wave	@T _A = +25°C @T _A = +125°C	IFSM	330 260	А
I ² t Rating for Fusing (t = 8.3ms)		l ² t	115	A ² s
Operating and Storage Temperature Range		TJ ,TSTG	-55 to +150	°C

Electrical Characteristics (@TA = +25°C, unless otherwise specified.)

Characteristic	Test Condition		Symbol	Тур.	Max	Unit
Forward Voltage (Note 5)	$I_F = 4A$	$T_A = +25^{\circ}C$	VF	0.84	0.9	V
Leakage Current	$V_R = 600V$	$T_A = +25^{\circ}C$	IR	0.03	5	μA
Typical Junction Capacitance (Note 6)			CJ	8	35	pF

Thermal Characteristics

Characteristic	Symbol	Тур.	Unit
Typical Thermal Resistance (Without Heatsink)	Rejc Rejl Reja	22 10 35	°C/W
Typical Thermal Resistance (Note 7)	Rejc Rejl Reja	5 7 9	°C/W

Notes:

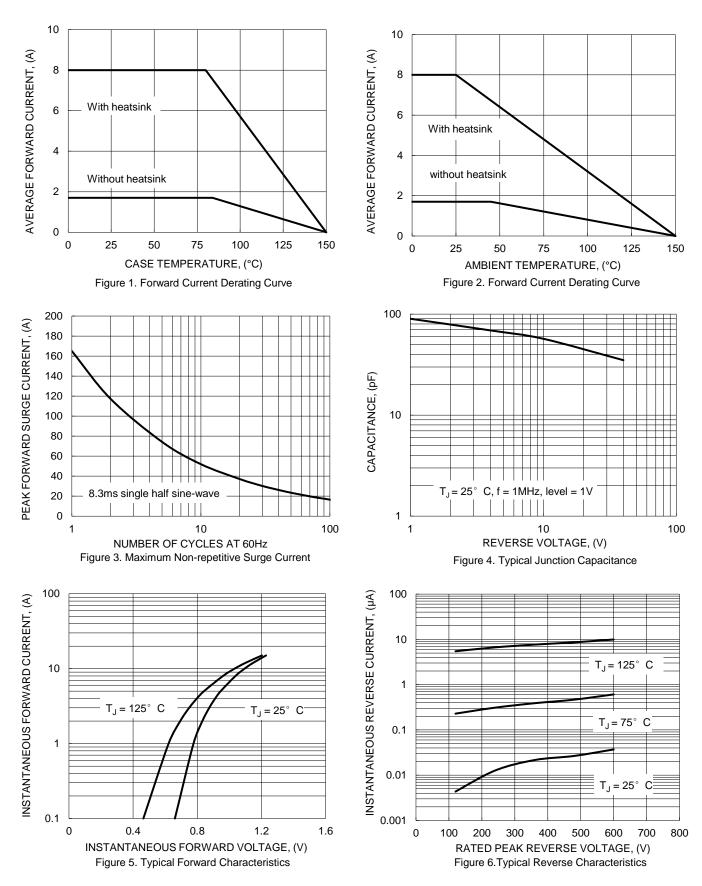
5. Perform static test after the temperature of oven is steady 20 minutes.

6. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

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

Unit mounted on 15mmx12mmx1.6mm AL pad attached on 160mmx160mmx5mm copper plate.



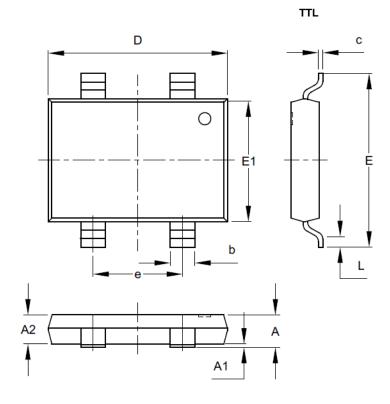




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Package Outline Dimensions

Please see http://www.diodes.com/package-outlines.html for the latest version.

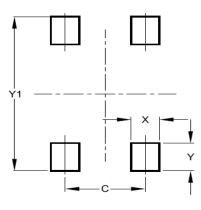


TTL					
Dim	Min	Max	TYP		
Α	1.45	1.80	1.65		
A1	0.00	0.15	0.10		
A2	1.45	1.65	1.55		
b	1.30	1.50	1.40		
c	0.15	0.35	0.25		
D	10.05	10.35	10.20		
ш	9.75	10.05	9.90		
E1	6.85	7.15	7.00		
Е	4.90	5.10	5.00		
L	0.45	0.95	0.70		
All Dimensions in mm					

Suggested Pad Layout

Please see http://www.diodes.com/package-outlines.html for the latest version.

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Dimensions	Value (in mm)		
С	5.00		
Х	1.80		
Y	2.10		
Y1	11.70		



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