



TT4V10

4A STANDARD RECOVERY BRIDGE RECTIFIER

Product Summary

VRRM (V)	I _F (A)	V _F Max (V) @ I _F = 2A	I _R Max (μA)
1000	4	0.95	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)

Features

- Glass Passivated Die Construction
- Ideal for Printed Circuit Board
- Reliable Low-Cost Construction Utilizing Molded Plastic Technique
- Low-Forward Voltage Drop
- UL Recognized File # E364304
- 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-Q100/101/104/200, PPAP capable, and manufactured in IATF 16949 certified facilities), please contact us or your local Diodes representative.

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







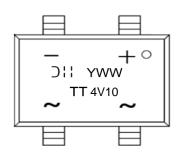
Ordering Information (Note 4)

Orderable Part Number	Package	Orderskie Bert Nimsker		acking	
Orderable Part Number		Qty.	Carrier		
TT4V10	TTL	1500pcs	Reel		

Notes:

- 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. For packaging details, go to our website at https://www.diodes.com/design/support/packaging/diodes-packaging/.

Marking Information



Dill = Manufacturer's Marking
TT4V10 = Product Type Marking Code
YWW = Date Code Marking
Y = Year (ex: 5 = 2025)
WW = Week (01 to 53)



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

Characteristic			Value	Unit
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	1000	V
Maximum DC Blocking Voltage		VDC	1000	V
Average Rectified Output Current	@T _A = +25°C (Note 5)	I _{F(AV)}	4.0	Α
Peak Forward Surge Current 8.3ms Single Half Sine Wave	@T _A = +25°C @T _A = +125°C	IFSM	150 120	А
Peak Forward Surge Current 1.0ms Single Half Sine Wave	@T _A = +25°C @T _A = +125°C	I _{FSM}	300 240	А
Operating and Storage Temperature Range		TJ, TSTG	-55 to +150	°C

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

Characteristic	Test	Test Condition		Тур	Max	Unit
Forward Voltage	IF = 2A	T _A = +25°C T _A = +125°C	VF	0.88 0.77	0.95 —	V
Leakage Current	V _R = 1000V	T _A = +25°C T _A = +125°C	IR	0.12 25	5 500	μΑ
Typical Junction Capacitance (Note 6)		CJ	5	5	pF	

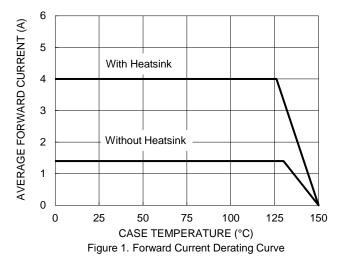
Thermal Characteristics

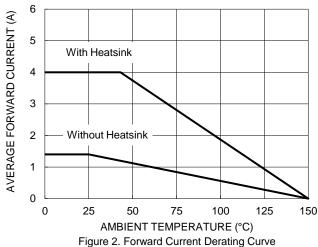
Characteristic	Symbol	Тур	Unit
Typical Thermal Resistance (Without Heatsink)	RθJC RθJL RθJA	40 15 30	°C/W
Typical Thermal Resistance (Note 7)	RөJC RөJL RөJA	2 10 12	°C/W

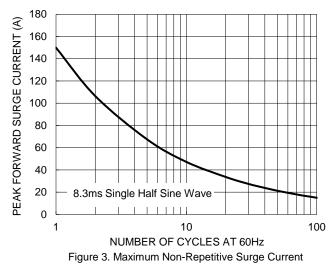
Notes:

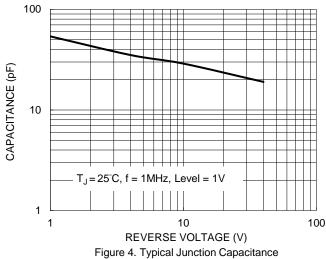
- 5. Perform static test after the temperature of oven is steady 20 minutes.
- 6. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- Thermal resistance junction to case, lead and ambient in accordance with JESD-51.
 Unit mounted on 15mm x 12mm x 1.6mm AL pad attached on 35mm x 22mm x 15mm fin heatsink.

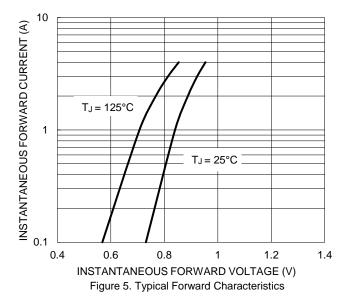


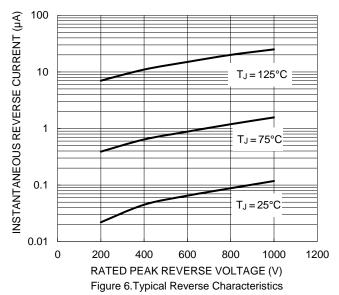










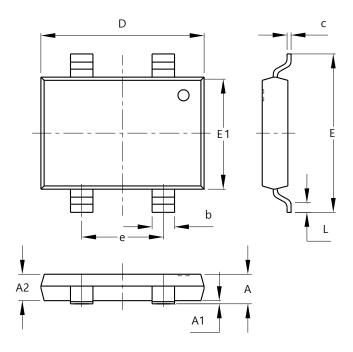




Package Outline Dimensions

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

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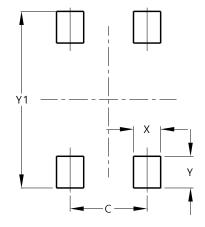


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Dim	Min	Max	TYP	
Α	1.45	1.80	1.65	
A1	0.00	0.15	0.10	
A2	1.45	1.65	1.55	
b	1.30	1.50	1.40	
С	0.15	0.35	0.25	
D	10.05	10.35	10.20	
Е	9.75	10.05	9.90	
E1	6.85	7.15	7.00	
е	4.90	5.10	5.00	
L	0.45	0.95	0.70	
All Dimensions in mm				

Suggested Pad Layout

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

TTL



Dimensions	Value (in mm)
С	5.00
Х	1.80
Υ	2.10
V1	11.70



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