



Product Summary

V _{RRM} (V)	I _F (A)	V _F Max (V) @ I _F = 2A	I _R Max (μA)
1000	4	1.0	5

Mechanical Data

- Case: TTL
- Case 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 (€3)
- Polarity Indicator: As Marked on The Body
- Weight: 0.41 grams (Approximate)

4A STANDARD RECOVERY BRIDGE RECTIFIER

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 us</u> or your local Diodes representative. <u>https://www.diodes.com/quality/product-definitions/</u>





Ordering Information (Note 4)

Part Number	Qualification	Case	Packaging	
TT4M	Commercial	TTL	1500/Reel	

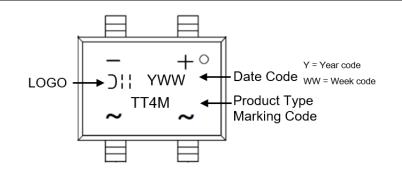
EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.
 See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.

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

Notes:





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

Characteristic		Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage		Vrrm	1000	V
Maximum DC Blocking Voltage		VDC	1000	V
Average Rectified Output Current	@T _A = +25°C	IF(AV)	4.0	A
Peak Forward Surge Current 8.3ms Single Half Sine- Wave	@T _A = +25°C @T _A = +125°C	IFSM	120 96	A
Peak Forward Surge Current 1.0ms Single Half Sine- Wave	@T _A = +25°C @T _A = +125°C	I _{FSM}	240 192	A
I ² t Rating for Fusing (t = 8.3ms)		l ² t	59.7	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 Valtage	I- 0A	T _A = +25°C	¥-	0.91	1.0	V
Forward Voltage	IF = 2A	T _A = +125°C	VF	0.80	—	v
Leakage Current	V _R = 1000V	T _A = +25°C		0.06	5	μΑ
		T _A = +125°C	IR	19	500	
Typical Junction Capacitance (Note 5)			CJ	3	5	pF

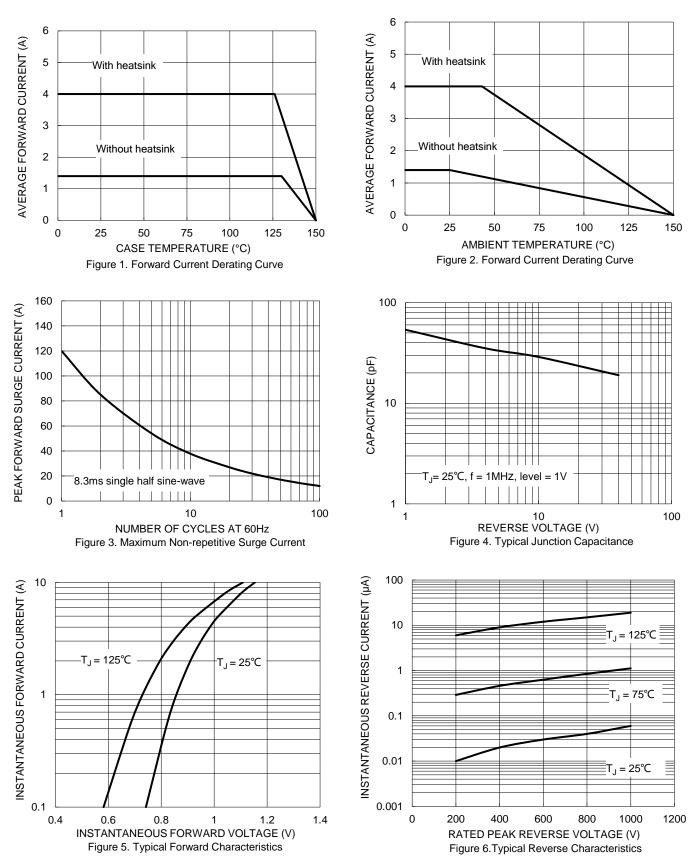
Thermal Characteristics

Characteristic	Symbol	Тур.	Unit
Typical Thermal Resistance (Without Heatsink)	Rejc Rejl Reja	8 10 60	°C/W
Typical Thermal Resistance (Note 6)	Rejc Rejl Reja	3 6 15	°C/W

Notes: 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 15mmx12mmx1.6mm AL pad attached on 40mmx30mmx24mm fin heatsink.

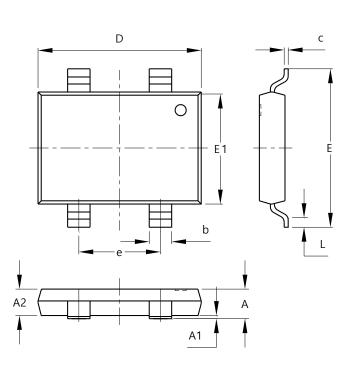






Package Outline Dimensions

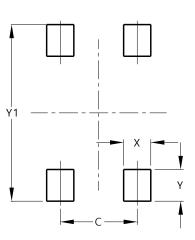
Please see http://www.diodes.com/package-outlines.html for the latest version.



	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		
С	0.15	0.35	0.25		
D	10.05	10.35	10.20		
E	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 [All Dimensions in mm				

Suggested Pad Layout

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



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

TTL



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