





1.0A DSR BRIDGE DIODESTAR RECTIFIER

Features

- · Glass Passivated Bridge Rectifier
- Excellent High Temperature Stability
- 150°C Operating Junction Temperature
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)

Mechanical Data

- Case: T-MiniDIP
- Case Material: Molded Plastic "Green" Molding Compound, UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Finish Matte Tin over Copper Lead Frame, Solderable per MIL-STD-202, Method 208 (§3)
- Polarity: See Diagram
- Weight: 0.092 grams (approximate)

T-MiniDIP







Bottom View

Ordering Information (Note 4)

Part Number	Case	Packaging
DSRHD02-13	T-MiniDIP	5000/Tape & Reel
DSRHD04-13	T-MiniDIP	5000/Tape & Reel
DSRHD06-13	T-MiniDIP	5000/Tape & Reel
DSRHD08-13	T-MiniDIP	5000/Tape & Reel

Notes:

- 1. EU Directive 2002/95/EC (RoHS) & 2011/65/EU (RoHS 2) compliant. All applicable RoHS exemptions applied.
- 2. See http://www.diodes.com 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 http://www.diodes.com.

Marking Information



 $\underline{D}xx = Product Type Marking Code$

12 = 200V

14 = 400V

16 = 600V

18 = 800V

O'' = Manufacturers' Code Marking YWW = Date Code Marking Y = Last Digit of Year (ex: 2 = 2012) WW = Week Code (01 ~ 53)





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

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitance load, derate current by 20%.

Characteristic	Symbol	DSRHD02	DSRHD04	DSRHD06	DSRHD08	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _{RM}	200	400	600	800	٧
Average Rectified Output Current	I _O		1	.0		Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (Per Diode)	I _{FSM}	30			Α	
Minimum Fusing Current Rating (t < 8.3 ms)	l ² t		3.	73		A ² s

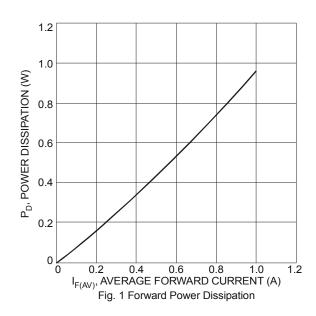
Thermal Characteristics

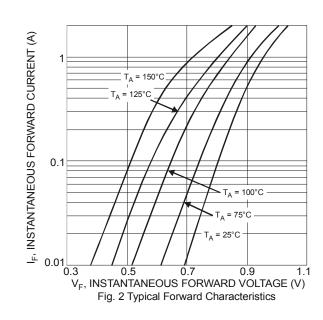
Characteristic		Symbol	Value	Unit
Typical Thermal Resistance Junction to Lead		$R_{ heta JL}$	25	°C/W
Typical Thermal Resistance Junction to Ambient	On Aluminum Substrate On Glass-Epoxy Substrate	$R_{ hetaJA}$	62.5 80	°C/W
Operating and Storage Temperature Range		T _J , T _{STG}	-55 to +150	°C

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

Characteristic	Symbol	Max	Unit	Test Condition
Forward Voltage (Per Diode)	V _F	0.95	+ V	$I_F = 0.4A, T_J = +25^{\circ}C$
Toward Voltage (Fer Diode)		1.1		$I_F = 1.0A, T_J = +25^{\circ}C$
		10 150	μΑ	V _R = Rated Block Voltage,
Reverse Current (Note 5) (Per Diode) V _R = Rated Block Voltage	I _R			$T_J = 25^{\circ}C$
				T _J = 125°C

Notes: 5. Short duration pulse test used to minimize self-heating effect.

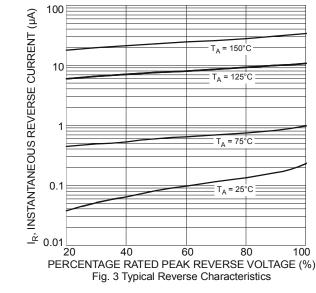


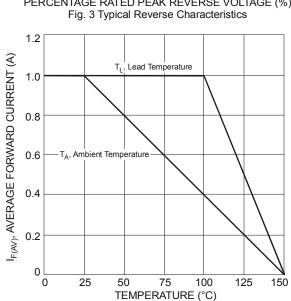


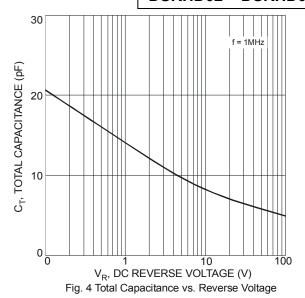


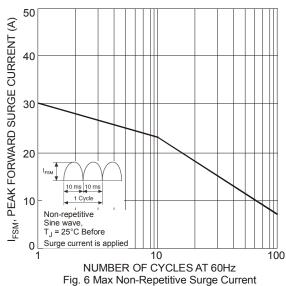


DSRHD02 - DSRHD08





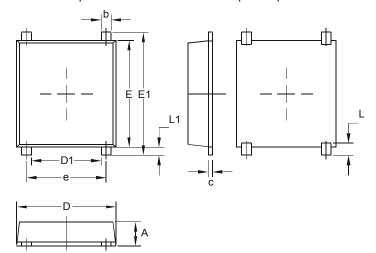




Package Outline Dimensions

Please see AP02002 at http://www.diodes.com/datasheets/ap02002.pdf for latest version.

Fig. 5 Forward Current Derating Curve



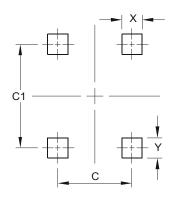
T-MiniDIP				
Dim	Min	Max		
Α	1.15	1.27		
b	0.60	0.70		
С	0.15	0.25		
D	4.90	5.10		
D1	3.20	3.50		
Е	5.30	5.50		
E1	6.00	6.40		
е	3.90	4.10		
L	0.25	0.80		
L1	0.25	0.55		
All Dimensions in mm				





Suggested Pad Layout

Please see AP02001 at http://www.diodes.com/datasheets/ap02001.pdf for the latest version.



Dimensions	Value (in mm)		
С	4.00		
C1	5.60		
Х	0.75		
Υ	0.85		

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