





DSRHD02 – DSRHD08

1.0A DSR BRIDGE **DIODESTAR RECTIFIER**

Features

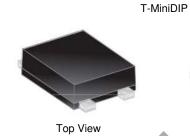
- **Glass Passivated Bridge Rectifier**
- Excellent High Temperature Stability
- 150ºC Operating Junction Temperature
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)

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

Bottom View

Weight: 0.092 grams (approximate)



Ordering Information (Note 4)

0		
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

1. EU Directive 2002/95/EC (RoHS) & 2011/65/EU (RoHS 2) compliant. All applicable RoHS exemptions applied. Notes:

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



Dxx = Product Type Marking Code

- 12 = 200V14 = 400V
- 16 = 600V
- 18 = 800V

⊃! = 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.

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	V
Average Rectified Output Current		1.0				Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (Per Diode)		30				А
Minimum Fusing Current Rating (t < 8.3 ms)		3.73				A ² s

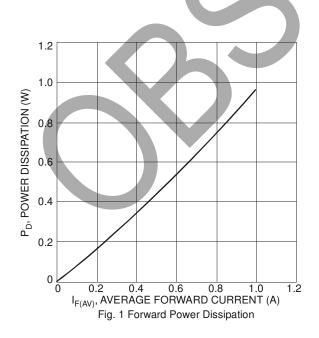
Thermal Characteristics

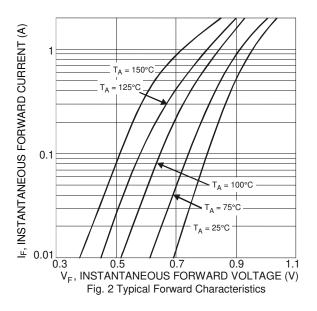
Characteristic		Symbol	Value	Unit
Typical Thermal Resistance Junction to Lead		$R_{ etaJL}$	25	°C/W
Typical Thermal Resistance Junction to Ambient	On Aluminum Substrate	P	62.5	°C/W
	On Glass-Epoxy Substrate	$R_{ heta JA}$	80	0/10
Operating and Storage Temperature Range		TJ, TSTG	-55 to +150	°C

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

Characteristic	Symbol	Мах	Unit	Test Condition
Forward Voltage (Per Diode)	VF	0.95	V	$I_F = 0.4A, T_J = +25^{\circ}C$
i olward voltage (Per Diode)		1.1	v	$I_F = 1.0A, T_J = +25^{\circ}C$
	IR	10 150	μA	V _R = Rated Block Voltage,
Reverse Current (Note 5) (Per Diode) V _R = Rated Block Voltage				$T_{\rm J} = 25^{\circ}C$
		100		$T_{\rm J} = 125^{\circ}C$

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

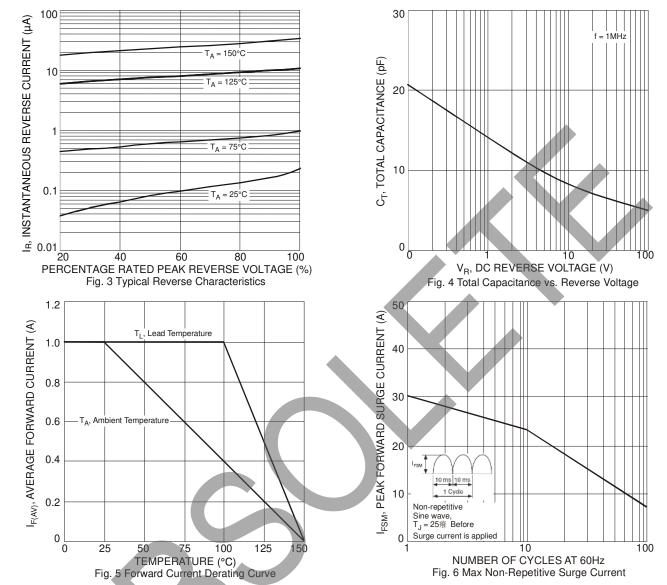






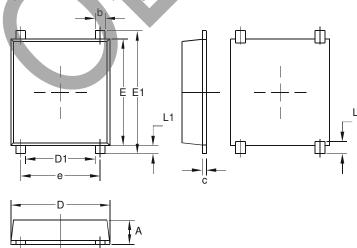
PART OBSOLETE – NO ALTERNATE PART





Package Outline Dimensions

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



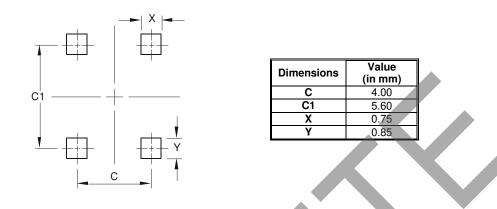
T-MiniDIP				
Dim	Min	Max		
Α	1.15	1.27		
b	0.60	0.70		
С	0.15	0.25		
D	4.90	5.10		
D1	3.20	3.50		
Е	5.30	5.50		
E1	6.00	6.40		
e	3.90	4.10		
L	0.25	0.80		
L1	0.25	0.55		
All Dimensions in mm				





Suggested Pad Layout

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



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 - 2. support or sustain life and whose failure to perform when properly used in accordance with instructions for use provided in the labeling can be reasonably expected to result in significant injury to the user.
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