

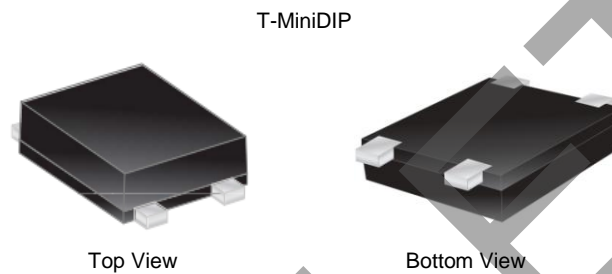
OBSOLETE – PART DISCONTINUED

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)



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



Dxx = Product Type Marking Code

- 12 = 200V
- 14 = 400V
- 16 = 600V
- 18 = 800V

D ::= 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	V _{RRM}					
Working Peak Reverse Voltage	V _{RWM}	200	400	600	800	V
DC Blocking Voltage	V _{RM}					
Average Rectified Output Current	I _O	1.0				A
Non-Repetitive Peak Forward Surge Current 8.3ms	I _{FSM}	30				A
Single Half Sine-Wave Superimposed on Rated Load (Per Diode)						
Minimum Fusing Current Rating (t < 8.3 ms)	I ² t	3.73				A ² s

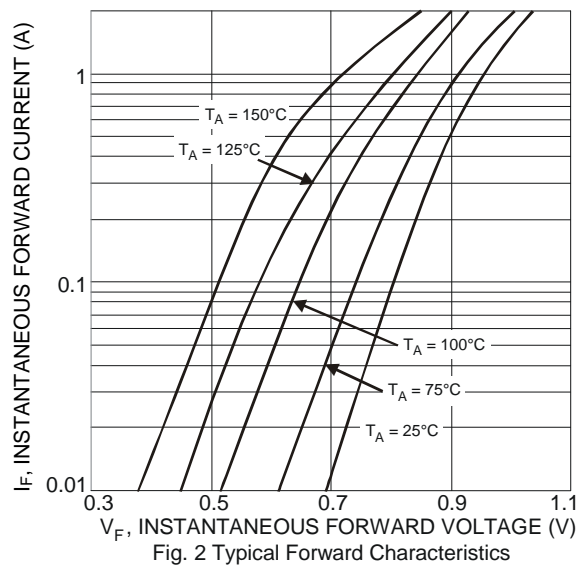
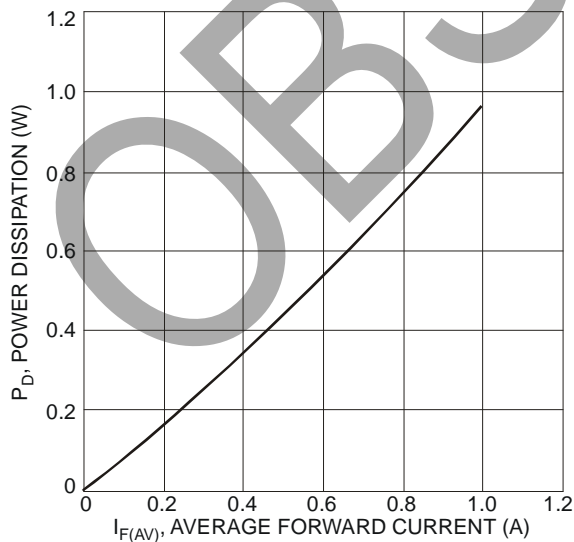
Thermal Characteristics

Characteristic	Symbol	Value	Unit
Typical Thermal Resistance Junction to Lead	R _{θJL}	25	°C/W
Typical Thermal Resistance Junction to Ambient	On Aluminum Substrate	62.5	°C/W
	On Glass-Epoxy Substrate	80	
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°C
		1.1		I _F = 1.0A, T _J = +25°C
Reverse Current (Note 5) (Per Diode) V _R = Rated Block Voltage	I _R	10 150	μA	V _R = Rated Block Voltage, T _J = 25°C T _J = 125°C

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



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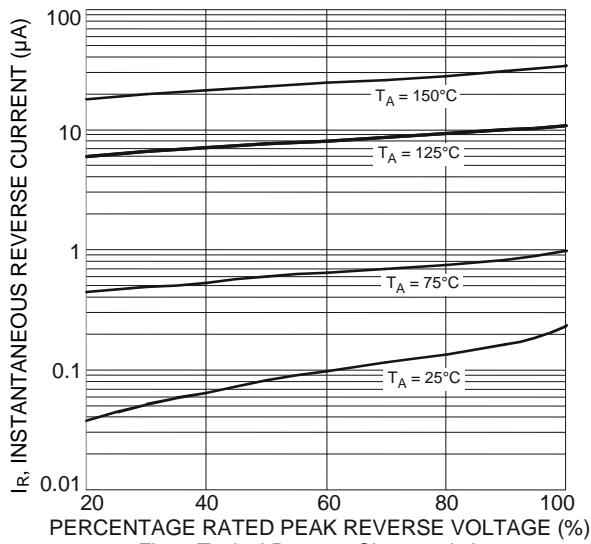


Fig. 3 Typical Reverse Characteristics

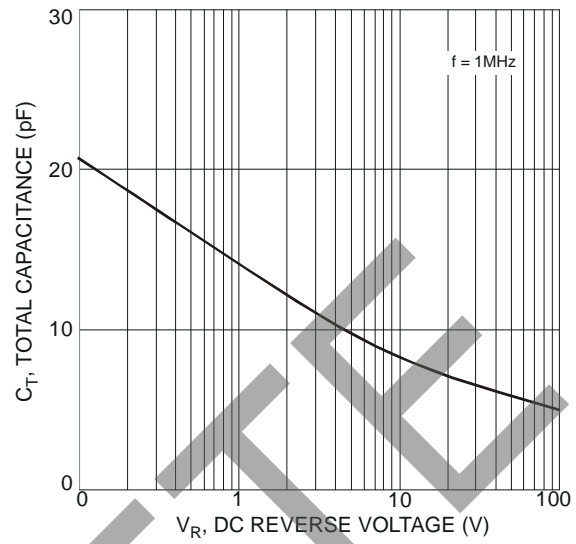


Fig. 4 Total Capacitance vs. Reverse Voltage

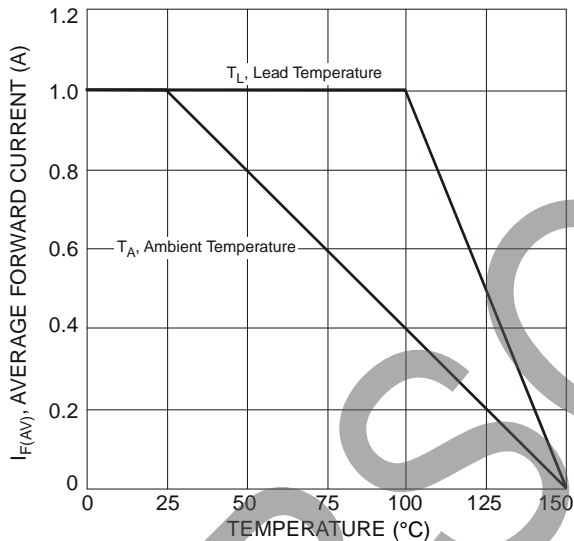


Fig. 5 Forward Current Derating Curve

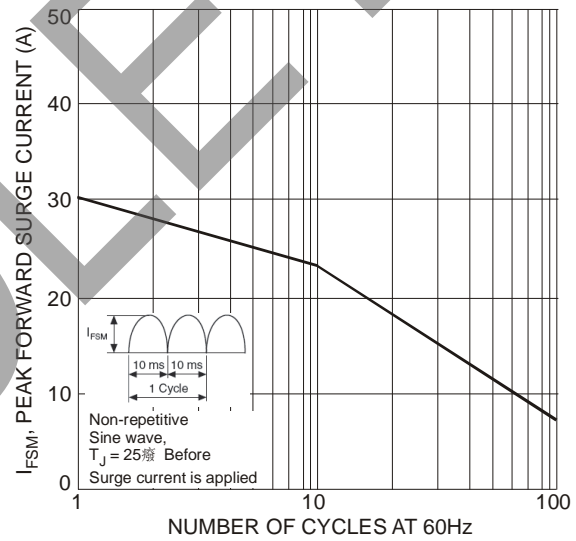
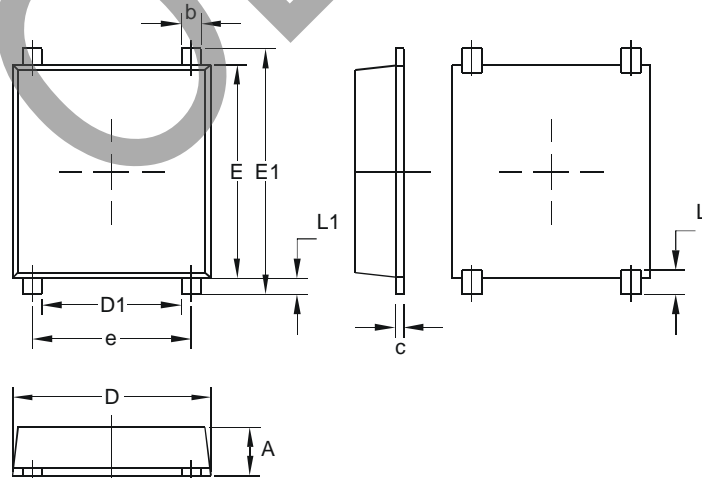


Fig. 6 Max Non-Repetitive Surge Current

Package Outline Dimensions

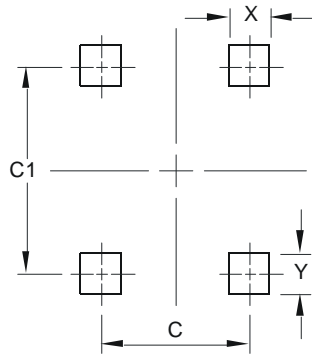
Please see <http://www.diodes.com/package-outlines.html> for the latest version.



T-MiniDIP		
Dim	Min	Max
A	1.15	1.27
b	0.60	0.70
c	0.15	0.25
D	4.90	5.10
D1	3.20	3.50
E	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.



Dimensions	Value (in mm)
C	4.00
C1	5.60
X	0.75
Y	0.85

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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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