



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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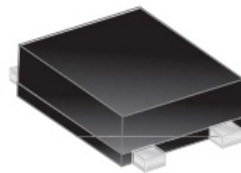
Features

- 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)**

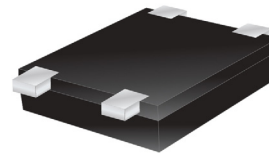
Mechanical Data

- 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 
- Polarity: See Diagram
- Weight: 0.092 grams (approximate)

T-MiniDIP



Top View



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



Dxx = Product Type Marking Code

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

DII = Manufacturers' Code Marking

YWW = Date Code Marking

Y = Last Digit of Year (ex: 2 = 2012)

WW = Week Code (01 ~ 53)

Maximum Ratings (@ $T_A = +25^\circ\text{C}$, 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}	200	400	600	800	V
Working Peak Reverse Voltage	V_{RWM}					
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^2t	3.73				A ² s

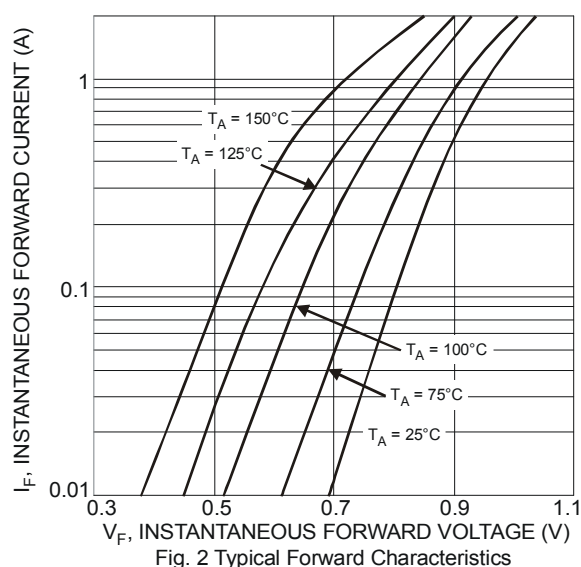
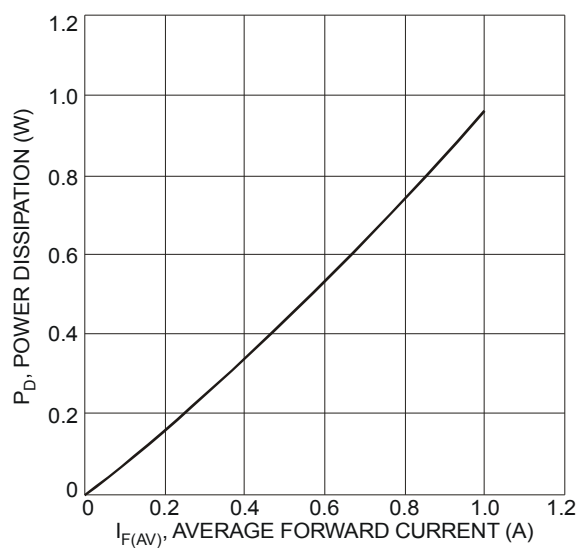
Thermal Characteristics

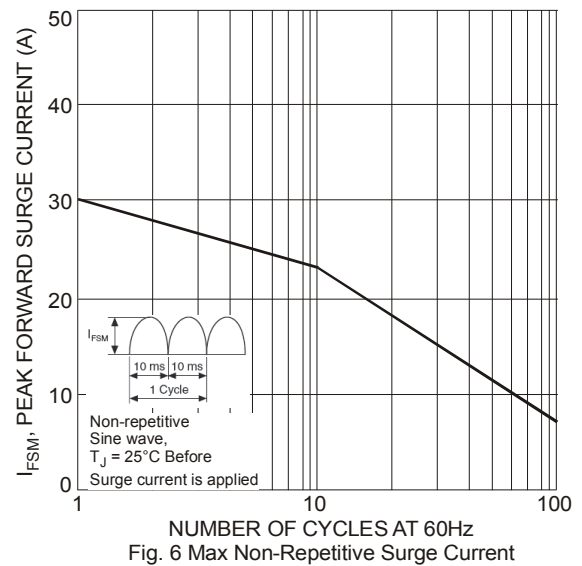
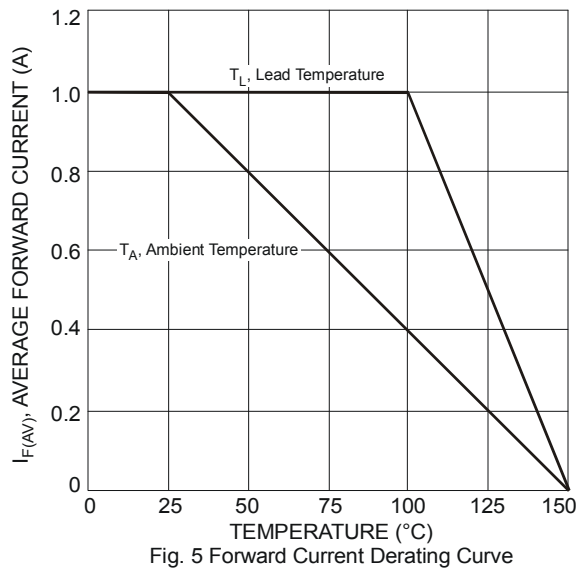
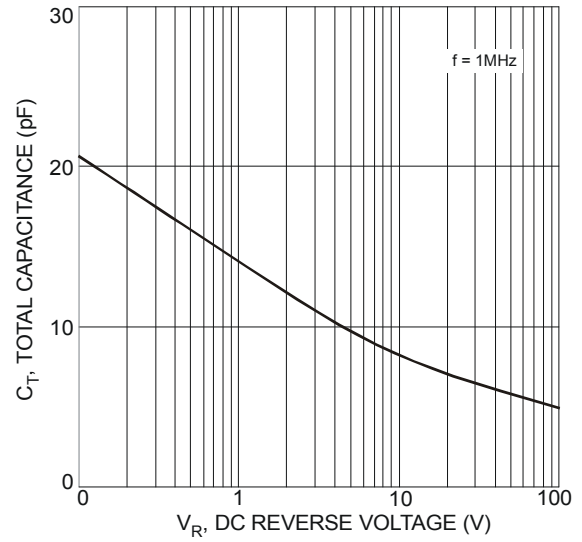
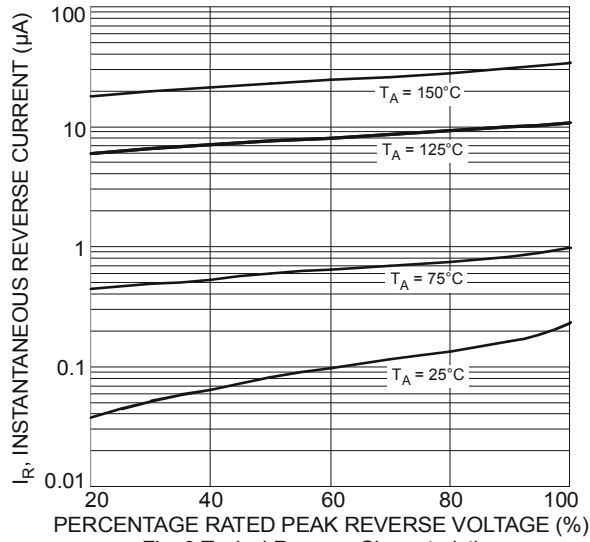
Characteristic	Symbol	Value	Unit
Typical Thermal Resistance Junction to Lead	$R_{\theta JL}$	25	$^\circ\text{C/W}$
Typical Thermal Resistance Junction to Ambient	On Aluminum Substrate	62.5	$^\circ\text{C/W}$
	On Glass-Epoxy Substrate	80	
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150	$^\circ\text{C}$

Electrical Characteristics (@ $T_A = +25^\circ\text{C}$, unless otherwise specified.)

Characteristic	Symbol	Max	Unit	Test Condition
Forward Voltage (Per Diode)	V_F	0.95	V	$I_F = 0.4\text{A}, T_J = +25^\circ\text{C}$
		1.1		$I_F = 1.0\text{A}, T_J = +25^\circ\text{C}$
Reverse Current (Note 5) (Per Diode) V_R = Rated Block Voltage	I_R	10 150	μA	V_R = Rated Block Voltage, $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$

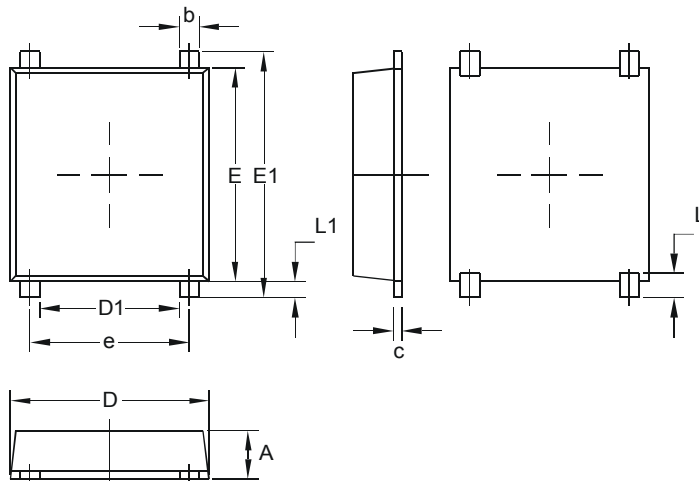
Notes: 5. Short duration pulse test used to minimize self-heating effect.





Package Outline Dimensions

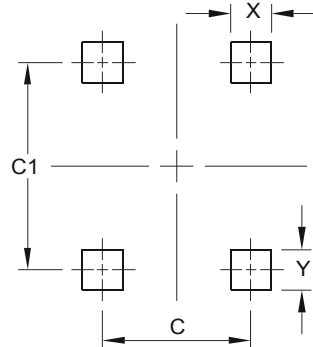
Please see AP02002 at <http://www.diodes.com/datasheets/ap02002.pdf> for latest version.



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



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

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