



DHDS2100

2A SCHOTTKY BRIDGE RECTIFIER HDS

Product Summary (@T_A = +25°C)

V _{RRM} (V)	I ₀ (A)	V _F Max (V)	I _R Max (µA)
100	2	0.85	50

Features and Benefits

- Rating to 100V PRV
- 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-Q100/101/104/200, PPAP capable, and manufactured in IATF 16949 certified facilities), please contact us or your local Diodes representative. https://www.diodes.com/quality/product-definitions/

Mechanical Data

- Package: HDS
- Package Material: Molded Plastic, "Green" Molding Compound; UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Lead-Free Plating (Matte Tin Finish), Solderable per MIL-STD-202, Method 208 (e3)

(4)

(2)

Device Symbol

- Polarity: As Marked on Body
- Weight: 0.098 grams (Approximate)



Ordering Information (Note 4)

Part Number	Daekage	Packing		
Part Number	Package	Qty.	Carrier	
DHDS2100-13	HDS	3,000	Tape & Reel	

Notes:

1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied. 2. 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 + CI) and <1000ppm antimony compounds.

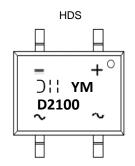
4. For packaging details, go to our website at https://www.diodes.com/design/support/packaging/diodes-packaging/.

Application

- Energy saving lamps
- Mobile battery chargers



Marking Information



 $\begin{array}{l} \begin{array}{l} \begin{array}{l} \begin{array}{l} \\ \end{array} \end{array} = & \mbox{Manufacturer's Code Marking} \\ \mbox{D2100} = & \mbox{Product Type Marking Code} \\ \mbox{YM} = & \mbox{Date Code Marking} \\ \mbox{Y} = & \mbox{Vert} \\ \mbox{Marking} \\ \mbox{Y} = & \mbox{Vert} \\ \mbox{Vert} \\ \mbox{Marking} \\ \mbox{Y} = & \mbox{Vert} \\ \mbox{Vert} \\ \mbox{Marking} \\ \mbox{Y} = & \mbox{Vert} \\ \mbox$

Date Code Key

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Code	K	L	М	N	Р	R	S	Т	U	V	W	Х
Month	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec

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

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

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vrm	100	V
Average Rectified Output Current	lo	2	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine Wave Superimposed on Rated Load	IFSM	50	А

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Typical Thermal Resistance Junction to Ambient (Note 5)	R _{0JA}	75	°C/W
Typical Thermal Resistance Junction to Case (Note 5)	Rejc	13	°C/W
Operating and Storage Temperature Range	TJ, TSTG	-55 to +150	°C

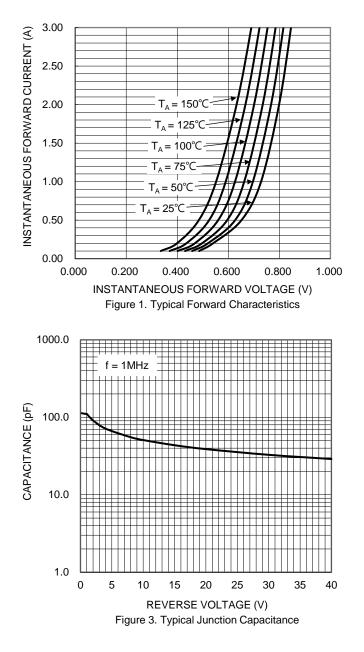
Note: 5. The unit mounted on glass-epoxy substrate with 1oz/ft2_2mm x 2mm copper pad.

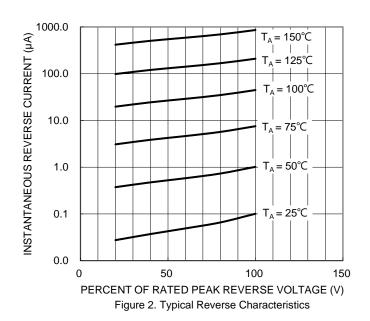
Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	Тур	Max	Unit	Test Condition
Forward Voltage Drop (Note 6)	VF	0.70	0.85	V	IF = 2A, TJ = +25°C IF = 2A, TJ = +125°C
Leakage Current (Note 6)	IR	_	50 5.0	μA mA	V _R = 100V, T _J = +25°C V _R = 100V, T _J = +100°C
Total Capacitance	Ст	75	—	pF	$V_R = 4V, f = 1MHz$

Note: 6. Short duration pulse test used to minimize self-heating effect.



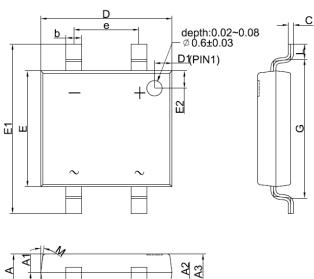






Package Outline Dimensions

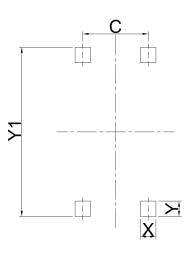
Please see http://www.diodes.com/package-outlines.html for the latest version.



HDS					
DIM	MIN	MAX			
Α	1.20	1.30			
A1	0.43	0.63			
A2	0.00	0.15			
A3	1.20	1.40			
b	0.45	0.75			
С	0.10	0.30			
D	4.85	5.25			
D1	0.45	0.85			
е	2.54 TYP				
E	4.25	4.65			
E1	6.40	6.80			
E2	0.45	0.85			
G	5.20	5.60			
L	0.40 0.80				
М	7° TYP				
N	7° TYP				
All Dime	nsions in mi	llimeters			

Suggested Pad Layout

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



Dimensions	Value (in mm)
Х	0.90
Y	1.50
Y1	7.20
С	2.50

HDS

HDS



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