



DABS2100

2A SCHOTTKY BRIDGE RECTIFIER ABS

Product Summary (@TA = +25°C)

VRRM (V)	lo (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/

Application

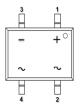
- Energy saving lamps
- · Mobile battery chargers

Mechanical Data

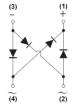
- Package: ABS
- Package Material: Molded Plastic, "Green" Molding Compound;
 UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Lead-Free Plating (Matte Tin Finish), Solderable per MIL-STD-202, Method 208 (€3)
- Polarity: As Marked on Body
- Weight: 0.098 grams (Approximate)



Top View



Pin Diagram



Device Symbol

Ordering Information (Note 4)

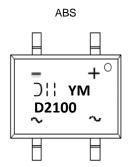
Orderable Part Number	Dookogo	Packing		
Orderable Part Number	Package	Qty.	Carrier	
DABS2100-13	ABS	3,000	Tape & Reel	

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 + Cl) and <1000ppm antimony compounds.
- 4. For packaging details, go to our website at https://www.diodes.com/design/support/packaging/diodes-packaging/.



Marking Information



Dil = Manufacturer's Code Marking D2100 = Product Type Marking Code YM = Date Code Marking Y = Year (ex: M = 2025) M = Month (ex: 5 = May)

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	Χ
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vrm	100	٧
Average Rectified Output Current	lo	2	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	50	А

Thermal Characteristics

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

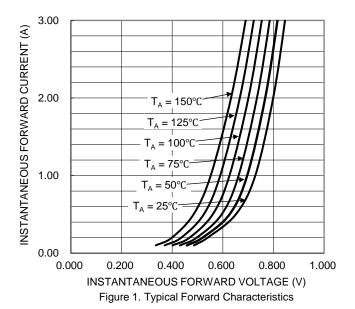
Note: 5. The unit mounted on glass-epoxy substrate with 1oz/ft2_2mm x 2mm copper pad.

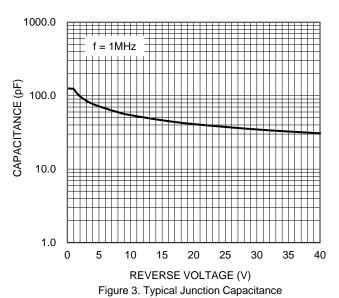
Electrical Characteristics (@TA = +25°C, unless otherwise specified.)

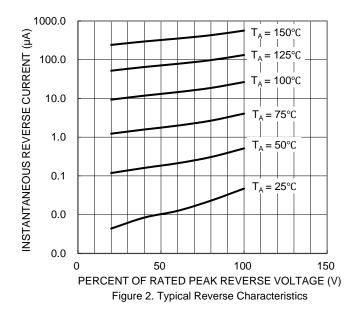
Characteristic	Symbol	Тур	Max	Unit	Test Condition
Forward Voltage Drop (Note 6)	V _F	— 0.70	0.85	V	IF = 2A, T _J = +25°C IF = 2A, T _J = +125°C
Leakage Current (Note 6)	IR	— —	50 5.0		V _R = 100V, T _J = +25°C V _R = 100V, T _J = +100°C
Total Capacitance	Ст	75		pF	$V_R = 4V$, $f = 1MHz$

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









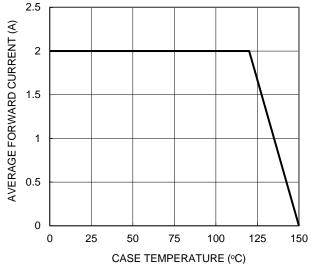


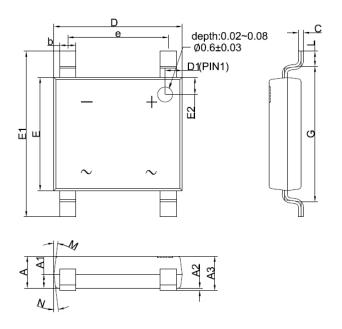
Figure 4. Forward Current Derating Curve



Package Outline Dimensions

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

ABS

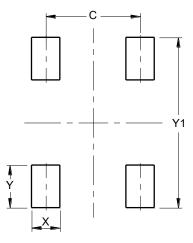


ABS					
DIM	MIN	MAX			
Α	1.20	1.30			
A 1	0.43	0.63			
A2	0.00	0.15			
A3	1.20	1.40			
b	0.50	0.80			
С	0.10	0.30			
D	4.85	5.25			
D1	0.45	0.85			
е	3.80	4.20			
E	4.25	4.65			
E1	6.40	6.80			
E2	0.45	0.85			
G	5.20	5.60			
L	0.40	0.80			
М	7° TYP				
N	7° TYP				
All Dime	All Dimensions in millimeters				

Suggested Pad Layout

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

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Dimensions	Value (in mm)
С	4.00
Χ	1.20
Y	1.80
Y1	7.20



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