



1.0A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

Product Summary (@ T_A = +25°C)

V _{RRM} (V)	I ₀ (A)	V _F Max (V)	I _R Max (µA)
1000	1	1.1	5

Description and Applications

The LBS10 is a surface mount glass passivated bridge rectifier. Suitable for AC to DC bridge full wave rectification for AC-DC Power Supply, LED lighting, adapter, battery charger, home appliances, office equipment, and telecommunication applications.

Features and Benefits

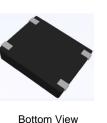
- Glass Passivated Die Construction
- Ideally Suited for Automated Assembly
- Low Profile Package: 1.00mm (Typ)
- Flat Lead Plastic Package
- Low Forward Voltage Drop
- Ultra-Thin Profile for Space Constrained Applications
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)

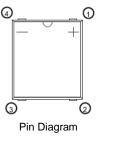
Mechanical Data

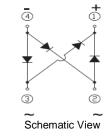
- Case: T-DFN5564-4
- Case Material: Molded Plastic, "Green" Molding Compound. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Pure Tin Finish Annealed over Copper Leadframe. Solderable per MIL-STD-202, Method 208 ^(C3)
- Polarity: Marked on Body
- Weight: 0.098 grams (Approximate)
- T-DFN5564-4



Top View







Ordering Information (Note 4)

Part Number	Compliance	Case	Packaging
LBS10-13	Commercial	T-DFN5564-4	5,000/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/quality/lead_free.html 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/products/packages.html.

Marking Information



LBS10 = Product Type Marking Code \supset !! = Manufacturers' Code Marking YWW = Date Code Marking Y = Last Digit of Year (ex.: 7 = 2017) WW = Week Code (01 to 53)



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

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	V _{RRM} V _{RWM} V _{RM}	1000	V
RMS Reverse Voltage	V _{R(RMS)}	700	V
Average Rectified Output Current	lo	1.0	А
I ² t Rating for Fusing (3ms < t < 8.3ms)	I ² T	3.7	A ² S
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	IFSM	30	А

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Typical Thermal Resistance, Junction to Case (Note 5)	R _{θJC}	22	°C/W
Thermal Resistance Junction to Ambient (Note 5)	R _{0JA}	52	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

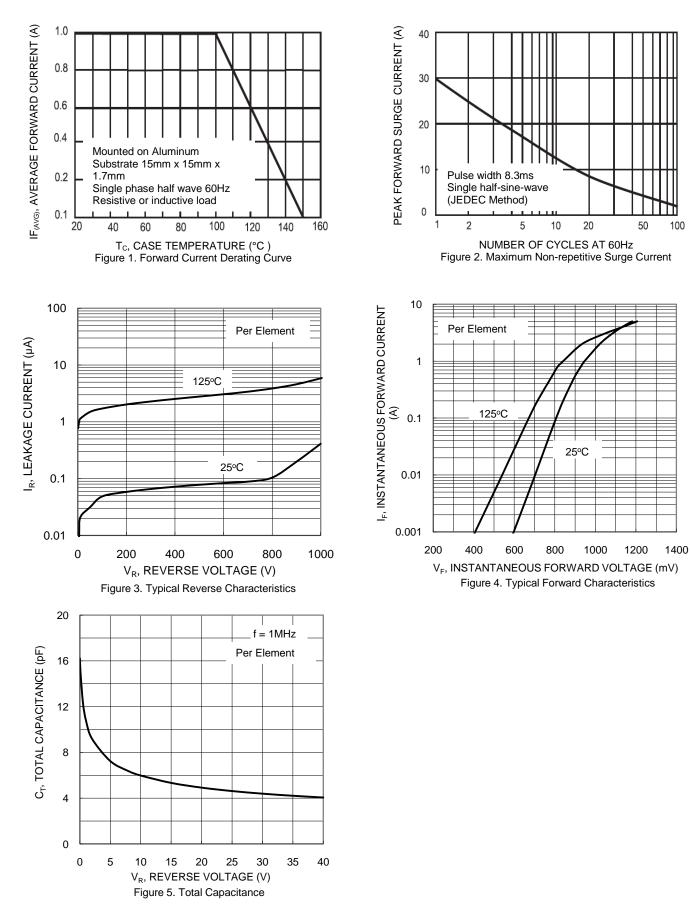
Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 6)	V _{(BR)R}	1,000			V	$I_R = 5\mu A$
Forward Voltage Drop (Per Element)	VF	_	0.98 0.88	1.1	V	I _F = 1A, T _J = +25°C I _F = 1A, T _J = +125°C
Leakage Current (Note 6) (Per Element)	I _R	_	0.2 11	5 500	μΑ	$V_R = 1,000V, T_J = +25^{\circ}C$ $V_R = 1,000V, T_J = +125^{\circ}C$
Total Capacitance (Per Element)	CT	_	7		pF	$V_R = 4.0 V_{DC}$, f = 1MHz

Notes:

5. Device mounted on Aluminum substrate with 15mm x 15mm x 1.7mm. Please see http://www.diodes.com/package-outlines.html for the latest version.
6. Short duration pulse test used to minimize self-heating effect.



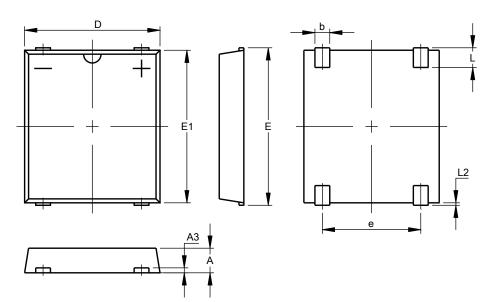


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Package Outline Dimensions

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



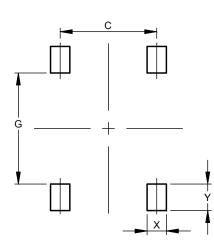
T-DFN5564-4

T-DFN5564-4

T-DFN5564-4					
Dim	Min	Max	Тур		
Α	0.90	1.10			
A3	0.15	0.25			
b	0.55	0.65			
D	5.40	5.60			
Е	6.30	6.50			
E1	6.10	6.30			
е	3.95	4.05			
L	0.75	0.85			
L2	0.05	0.15			
All Dimensions in mm					

Suggested Pad Layout

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



Dimensions	Value (in mm)
С	4.00
G	4.60
Х	0.80
Y	1.10

NEW PRODUCT



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