

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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BAT760

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Features

- Very Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- High Conductance
- Lead, Halogen and Antimony Free/RoHS Compliant (Note 1)
- "Green" Device (Notes 2 & 3)
- Qualified to AEC-Q101 Standards for High Reliability

Mechanical Data

- Case: SOD-323
- Case Material Molded Plastic, "Green" Molding Compound. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020
- Terminal Connections: Cathode Band
- Terminals: Finish Matte Tin Annealed Over Alloy 42 Leadframe. Solderable per MIL-STD-202, Method 208
- Weight: 0.004 grams (approximate)



Top View

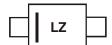
Ordering Information (Note 4)

Part Number	Case	Packaging
BAT760-7	SOD-323	3000/Tape & Reel

Notes:

- 1. No purposefully added lead. Halogen and Antimony Free.
- 2. Diodes Inc.'s "Green" policy can be found on our website at http://www.diodes.com.
- 3. Product manufactured with Green Molding Compound and does not contain Halogens or Sb₂O₃ Fire Retardants.
- 4. For packaging details, go to our website at http://www.diodes.com.

Marking Information



LZ = Product Type Marking Code



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	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	30	V
RMS Reverse Voltage	$V_{R(RMS)}$	21	V
Average Rectified Output Current	lo	1	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	5.5	А

Thermal Characteristics

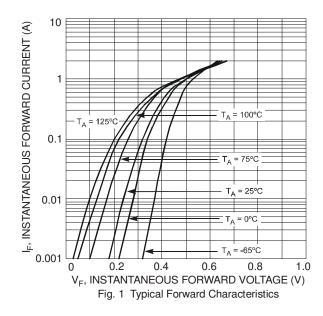
Characteristic	Symbol	Value	Unit
Power Dissipation (Note 1)	P_{D}	235	mW
Typical Thermal Resistance Junction to Ambient (Note 5)	$R_{ hetaJA}$	426	°C/W
Operating and Storage Temperature Range	T_{J}, T_{STG}	-65 to +150	°C

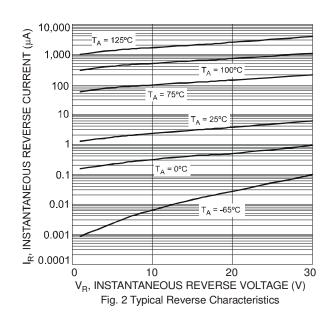
Electrical Characteristics @TA = 25°C unless otherwise specified

Characteristic	Symbol	Min	Тур	Max	Unit	Test Conditions
Reverse Breakdown Voltage (Note 6)	$V_{(BR)R}$	30	_	1	V	$I_R = 500 \mu A$
Forward Voltage Drop	V _F	_ _ _	245 320 495	270 350 550		I _F = 10mA I _F = 100mA I _F = 1A
Leakage Current (Note 6)	I _R	_ _ _	3.0 3.5 5.0	10 20 50		V _R = 5V V _R = 8V V _R = 15V
Total Capacitance	C _T	_	25	_	pF	f = 1MHz, V _R = 5VDC

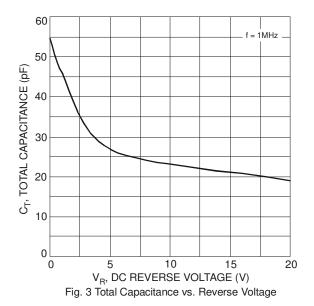
Notes:

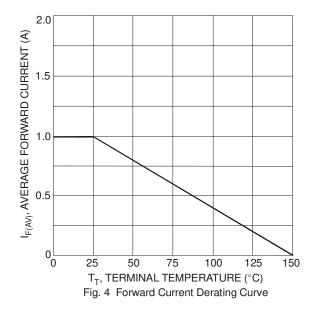
- 5. Part mounted on FR-4 PC board with recommended pad layout, which can be found on our website at http://www.diodes.com.
- 6. Short duration pulse test used to minimize self-heating effect.



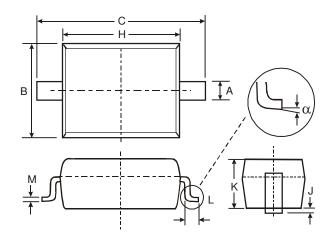






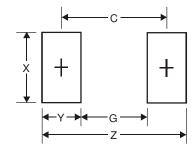


Package Outline Dimensions



SOD-323			
Dim	Min	Max	
Α	0.25	0.35	
В	1.20	1.40	
С	2.30	2.70	
Н	1.60	1.80	
J	0.00	0.10	
K	1.0	1.1	
L	0.20	0.40	
М	0.10	0.15	
α	0°	8°	
All Dimensions in mm			

Suggested Pad Layout



Dimensions	Value (in mm)
Z	3.75
G	1.05
X	0.65
Y	1.35
С	2.40



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