



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

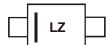
Ordering Information (Note 4)

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 $@T_A = 25^{\circ}C$ 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	I ₀	1	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	5.5	А

Thermal Characteristics

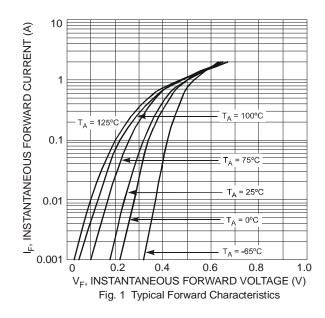
Characteristic	Symbol	Value	Unit
Power Dissipation (Note 1)	P_{D}	235	mW
Typical Thermal Resistance Junction to Ambient (Note 5)	$R_{ hetaJA}$	426	°C/W
Operating and Storage Temperature Range	$T_{J_i} T_{STG}$	-65 to +150	°C

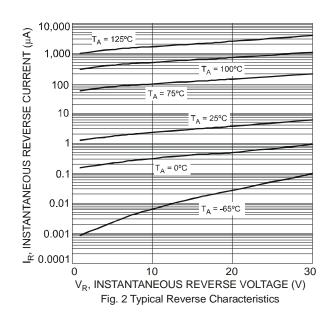
Electrical Characteristics @TA = 25°C unless otherwise specified

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

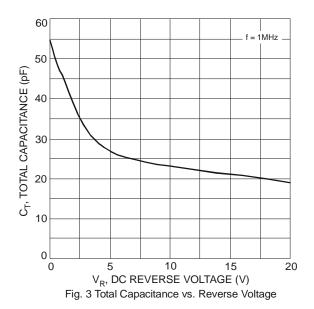
Notes:

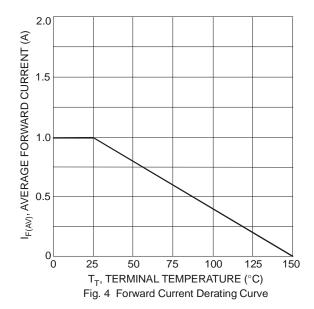
- 5. Part mounted on FR-4 PC board with recommended pad layout, which can be found on our website at http://www.diodes.com.
- 6. Short duration pulse test used to minimize self-heating effect.



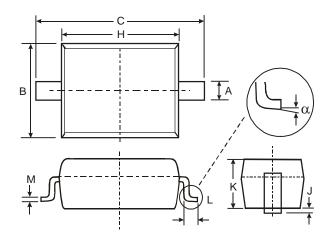






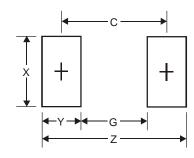


Package Outline Dimensions



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		
M	0.10	0.15		
α	0°	8°		
All Dimensions in mm				

Suggested Pad Layout



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



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многоканальный

Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001 Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

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