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Features

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- High Conductance
- Lead Free By Design/RoHS Compliant (Note 3)
- "Green" Device (Note 4)

Mechanical Data

- Case: SOD-323
- Case Material: Molded Plastic, "Green" Molding Compound. UL Flammability Rating Classification 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020D
- Polarity: Cathode Band
- Terminals: Finish Matte Tin Annealed Over Alloy 42 leadframe. Solderable per MIL-STD-202, Method 208
- Marking Information: See Page 2
- Ordering Information: See Page 2
- Weight: 0.004 grams (approximate)



Top View

Maximum Ratings $@T_A = 25^{\circ}C$ 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	V _{RRM} V _{RWM} V _R	40	V
RMS Reverse Voltage	V _{R(RMS)}	28	V
Average Rectified Output Current	lo	0.5	A
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	IFSM	3	A

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Power Dissipation (Note 1)	PD	235	mW
Typical Thermal Resistance Junction to Ambient (Note 1)	$R_{ ext{ heta}JA}$	426	°C/W
Operating and Storage Temperature Range	T _{J,} T _{STG}	-40 to +125	°C

Electrical Characteristics $@T_A = 25^{\circ}C$ unless otherwise specified

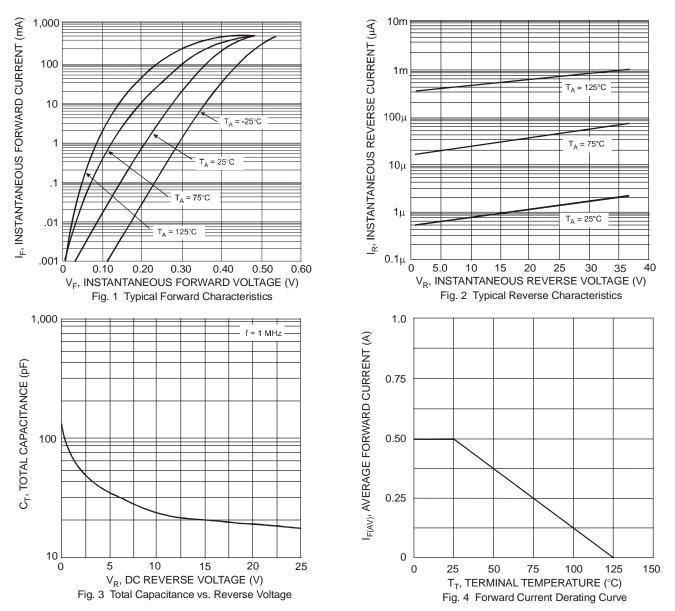
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 2)	V _{(BR)R}	40	_		V	$I_R = 1mA$
Forward Voltage	V _F	_	285 480	300 550	mV	$I_F = 10mA$ $I_F = 500mA$
Reverse Current (Note 2)	I _R		1.0 2.0	3 5	P .	V _R = 10V V _R = 30V
Total Capacitance	CT		125 20			$V_{R} = 0V, f = 1.0MHz$ $V_{R} = 10V, f = 1.0MHz$

Notes: 1. Part mounted on FR-4 PC board with recommended pad layout, which can be found on our website at http://www.diodes.com/datasheets/ap02001.pdf. 2. Short duration pulse test used to minimize self-heating effect.

3. No purposefully added Lead.

4. Diodes Inc.'s "Green" policy can be found on our website at http://www.diodes.com/products/lead_free/index.php.





Ordering Information (Note 5)

Part Number	Case	Packaging
B0540WS-7	SOD-323	3000/Tape & Reel

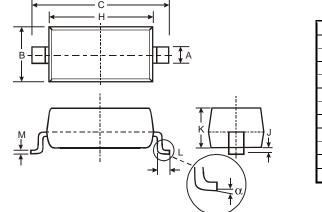
Notes: 5. For packaging details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

Marking Information



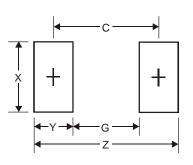


Package Outline Dimensions



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		
κ	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
Х	0.65
Y	1.35
С	2.40

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