

NOT RECOMMENDED FOR NEW **DESIGN, USE SD101AW - SD101CW**

SD101A - SD101C SCHOTTKY BARRIER DIODE

Features

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Low Reverse Recovery Time
- Low Reverse Capacitance
- Lead Free Finish, RoHS Compliant (Note 2)

Mechanical Data

Case: DO-35

Case Material: Glass

Moisture Sensitivity: Level 1 per J-STD-020D

Leads: Solderable per MIL-STD-202, Method 208

Terminals: Finish — Matte Tin. Solderable per MIL-STD-202, Method 208 (e3)

Polarity: Cathode Band

Marking Information: See Page 2

Ordering Information: See Page 2

Weight: 0.13 grams (approximate)

Maximum Ratings @TA = 25°C unless otherwise specified

Characteristic		Symbol	SD101A	SD101B	SD101C	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		$egin{array}{c} egin{array}{c} egin{array}$	60	50	40	V
RMS Reverse Voltage		V _{R(RMS)}	42	35	28	V
Forward Continuous Current (Note 1)		I _{FM}		15	•	mA
Non-Repetitive Peak Forward Surge Current	@ t ≤ 1.0s @ t = 10μs	I _{FSM}	50 2.0		mA A	

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Power Dissipation (Note 1)	P_{D}	400	mW
Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{\theta JA}$	375	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +175	°C

Electrical Characteristics @TA = 25°C unless otherwise specified

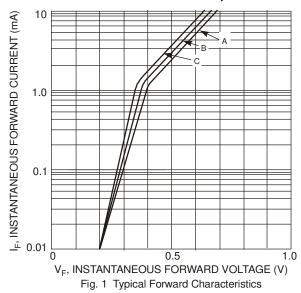
Characteristic		Symbol	Min	Max	Unit	Test Condition
Maximum Forward Voltage Drop	SD101A SD101B SD101C SD101A SD101B SD101C	V_{FM}	_	0.41 0.40 0.39 1.00 0.95 0.90	V	I _F = 1.0mA I _F = 1.0mA I _F = 1.0mA I _F = 15mA I _F = 15mA I _F = 15mA
Maximum Peak Reverse Current	SD101A SD101B SD101C	I _{RM}	_	200	nA	V _R = 50 V V _R = 40 V V _B = 30 V
Total Capacitance	SD101A SD101B SD101C	Ст	_	2.0 2.1 2.2	pF	V _R = 0V, f = 1.0MHz
Reverse Recovery Time		t _{rr}	_	1.0	ns	$I_F = I_R = 5.0 \text{mA},$ $I_{rr} = 0.1 \times I_R, R_L = 100 \Omega$

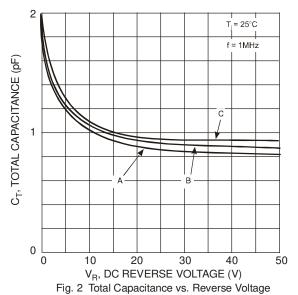
Notes:

Valid provided that leads are kept at ambient temperature. EU Directive 2002/95/EC (RoHS). All applicable RoHS exemptions applied, see EU Directive 2002/95/EC Annex Notes.

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SD101A - SD101C





Ordering Information (Note 3)

Part Number	Case	Packaging	
SD101A-A	DO-35	10K/Ammo Pack	
SD101A-T	DO-35	10K/Tape & Reel, 13-inch	
SD101B-A	DO-35	10K/Ammo Pack	
SD101B-T	DO-35	10K/Tape & Reel, 13-inch	
SD101C-A	DO-35	10K/Ammo Pack	
SD101C-T	DO-35	10K/Tape & Reel, 13-inch	

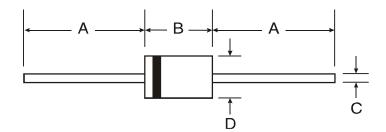
Notes: 3. For packaging details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

Marking Information



SD101x= Product Type Marking Code (SD101A, SD101B, SD101C) SH = Manufacturers' Code Marking YWW = Date Code Marking Y = Last digit of (ex: 2 for 2002) WW = Week code 01 to 52

Package Outline Dimensions



DO-35				
Dim	Min	Max		
Α	25.40			
В	_	4.00		
С	_	0.60		
D	_	2.00		
All Dimensions in mm				
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