



1N5711WS

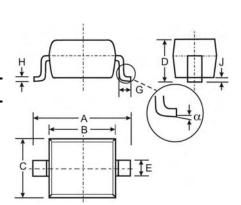
SURFACE MOUNT SCHOTTKY BARRIER DIODE

Features

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Fast Switching Speed
- Low Capacitance
- Surface Mount Package Ideally Suited for Automatic Insertion
- Lead Free/RoHS Compliant (Note 3)

Mechanical Data

- Case: SOD-323
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Solderable per MIL-STD-202, Method 208
- Lead Free Plating (Matte Tin Finish annealed over Alloy 42 leadframe).
- Polarity: Cathode Band
- Marking Information: See Page 3
- Ordering Information: See Page 3
- Weight: 0.004 grams (approximate)



SOD-323			
Dim	Min	Max	
Α	2.30	2.70	
В	1.60	1.80	
С	1.20	1.40	
D	1.05 Typical		
Е	0.25	0.35	
G	0.20	0.40	
Н	0.10	0.15	
J	0.05 Typical		
α	0°	8°	
All Dimensions in mm			

Maximum Ratings @T_A = 25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	70	V
RMS Reverse Voltage	$V_{R(RMS)}$	49	V
Forward Continuous Current	I _{FM}	15	mA
Power Dissipation (Note 1)	P _D	150	mW
Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{\theta JA}$	650	°C/W
Operating Temperature Range	T _j	-55 to +125	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

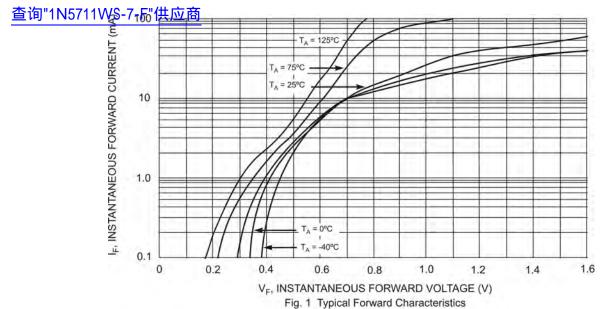
Electrical Characteristics @T_A = 25°C unless otherwise specified

Characteristic	Symbol	Min	Тур	Max	Unit	Test Conditions
Reverse Breakdown Voltage (Note 2)	$V_{(BR)R}$	70	_	_	V	$I_R = 10\mu A$
Reverse Leakage Current (Note 2)	I _R	_	_	200	nA	V _R = 50V
Forward Voltage Drop	V _F	_	_	0.41 1.00	V	$I_F = 1.0 \text{mA}$ $I_F = 15 \text{mA}$
Total Capacitance	Ст	_	_	2.0	pF	$V_R = 0V$, $f = 1.0MHz$
Reverse Recovery Time	t _{rr}	_	_	1.0	ns	$I_F = I_R = 5.0 \text{mA},$ $I_{rr} = 0.1 \text{ x } I_R, R_L = 100 \Omega$

Note:

- 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.
- Short duration test pulse used to minimize self-heating effect.
- Short duration test pulse use
 No purposefully added lead.



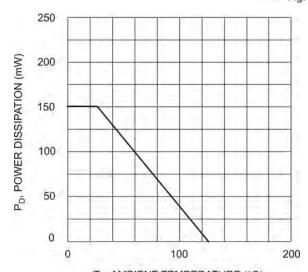


10000 IR, INSTANTANEOUS REVERSE CURRENT (nA) = 125°C 1000 T_A = 75°C 100 TA = 25°C 10 $T_A = 0$ °C 1 $T_A = -40^{\circ}C$ 0.1 20 0 10 30 40 50 60 70

1.8 1.6 f = 1.0MHz C_T, TOTAL CAPACITANCE (pF) 1.4 1.2 1.0 0.8 0.6 0.4 0.2 0 0 5 20 25 30 10 15 35 40

V_R, REVERSE VOLTAGE (V) Fig. 2 Typical Reverse Characteristics

V_R, REVERSE VOLTAGE (V) Fig. 3 Typical Capacitance



TA, AMBIENT TEMPERATURE (°C) Fig. 4 Power Derating Curve



查询"1N5711WS-7-F"供应商 Ordering Information (Note 4

Device	Packaging	Shipping
1N5711WS-7-F	SOD-323	3000/Tape & Reel

Notes: 4. For Packaging Details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

Marking Information



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