

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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China











1N5711W

SURFACE MOUNT SCHOTTKY BARRIER DIODE

Features

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Fast Switching Time
- Low Reverse Capacitance
- Surface Mount Package Ideally Suited for Automated Insertion
- Lead, Halogen and Antimony Free, RoHS Compliant "Green" Device (Notes 3 and 4)

Mechanical Data

Case: SOD-123

 Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

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

• 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 2
Ordering Information: See Page 2
Weight: 0.01 grams (approximate)



Top View

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 _R WM	70	V
RMS Reverse Voltage	V _{R(RMS)}	49	V
Maximum Forward Current	I _{FM}	15	mA

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Power Dissipation (Note 1)	P_{D}	333	mW
Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{ hetaJA}$	300	°C/W
Operating Temperature Range	T_J	-55 to +125	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

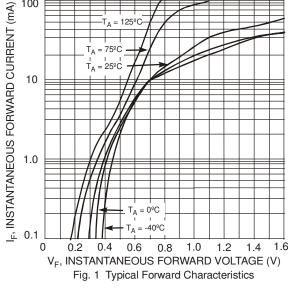
Electrical Characteristics @T_A = 25°C unless otherwise specified

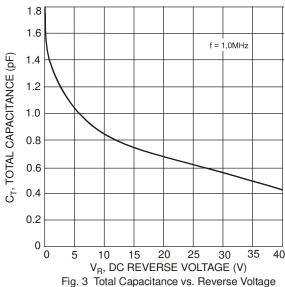
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 2)	$V_{(BR)R}$	70			V	$I_R = 10\mu A$
Forward Voltage Drop	V _F	_	_	0.41 1.00	· · · · · · · · · · · · · · · · · · ·	I _F = 1.0mA I _F = 15mA
Reverse Leakage Current (Note 2)	I _R	_	_	200	nA	$V_R = 50V$
Total Capacitance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

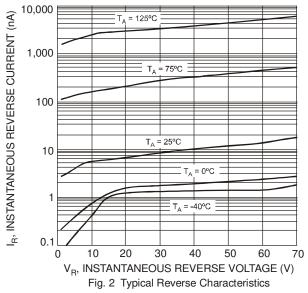
Notes:

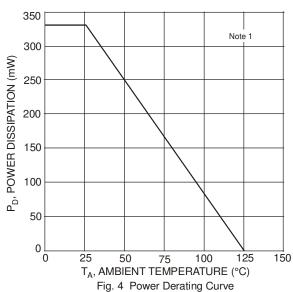
- 1. Part mounted on FR-4 board with recommended pad layout, which can be found on our website at http://www.diodes.com/datasheets/ap02001.pdf.
- Short duration pulse test used to minimize self-heating effect.
- 3. No purposefully added lead. Halogen and Antimony Free.
- Product manufactured with Data Code V9 (week 33, 2008) and newer are built with Green Molding Compound. Product manufactured prior to Date Code V9 are built with Non-Green Molding Compound and may contain Halogens or Sb₂O₃ Fire Retardants.











Ordering Information (Note 5)

Part Number	Case	Packaging
1N5711W-7-F	SOD-123	3000/Tape and Reel

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

Marking Information



SA = Product Type Marking Code YM = Date Code Marking

Y = Year (ex: T = 2006)

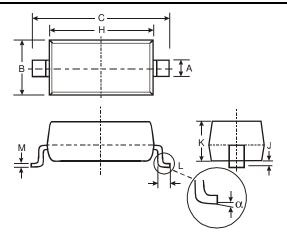
M = Month (ex: 9 = September)

Date Code Key

Date Cot	ie ney																	
Year	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Code	J	K	L	М	Ν	Р	R	S	Т	U	٧	W	Χ	Υ	Z	Α	В	С
Month	Jan	1	Feb	Mar		Apr	May	,	Jun	Jul		Aug	Sep)	Oct	Nov	,	Dec
Code	1		2	3		4	5		6	7		8	9		0	N		D

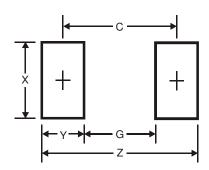


Package Outline Dimensions



SOD-123								
Dim	Min Max							
Α	0.55	Тур						
В	1.40	1.70						
С	3.55	3.85						
Н	2.55	2.85						
J	0.00	0.10						
K	1.00	1.35						
L	0.25	0.40						
M	0.10	0.15						
α	0	8°						
All Di	All Dimensions in mm							

Suggested Pad Layout



Dimensions	Value (in mm)
Z	4.9
G	2.5
Х	0.7
Υ	1.2
С	3.7

IMPORTANT NOTICE

Diodes Incorporated and its subsidiaries reserve the right to make modifications, enhancements, improvements, corrections or other changes without further notice to any product herein. Diodes Incorporated does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold Diodes Incorporated and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

Diodes Incorporated products are not authorized for use as critical components in life support devices or systems without the expressed written approval of the President of Diodes Incorporated.