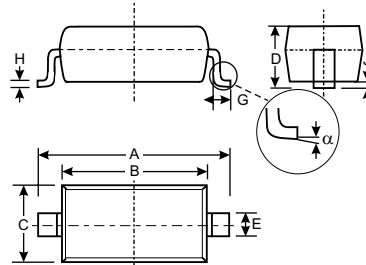


Features

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Fast Switching Time
- Low Reverse Capacitance

Mechanical Data

- Case: SOD-123, Plastic
- Case material - UL Flammability Rating Classification 94V-0
- Moisture sensitivity: Level 1 per J-STD-020A
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Marking: Date Code and Type Code, See Page 3
- Type Code: SA
- Weight: 0.01 grams (approx.)
- Ordering Information: See Below



SOD-123		
Dim	Min	Max
A	3.55	3.85
B	2.55	2.85
C	1.40	1.70
D	—	1.35
E	0.55 Typical	
G	0.25	—
H	0.11 Typical	
J	—	0.10
α	0°	8°
All Dimensions in mm		

Maximum Ratings @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	1N5711W	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
Maximum Forward Current	I_{FM}	15	mA
Power Dissipation (Note 1)	P_d	333	mW
Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{\theta JA}$	300	°C/W
Operating Temperature Range	T_j	-55 to +125	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

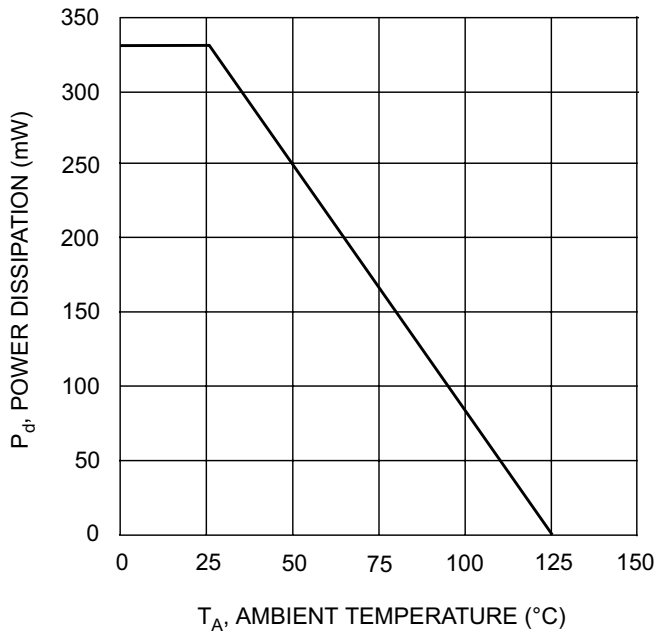
Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Min	Typ	Max	Unit	Test Condition
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 (Note 2)	V_F	—	—	0.41 1.00	V	$I_F = 1.0mA$ $I_F = 15mA$
Total Capacitance	C_T	—	—	2.0	pF	$V_R = 0V, f = 1.0MHz$
Reverse Recovery Time	t_{rr}	—	—	1.0	ns	$I_F = I_R = 5.0mA$ $I_{rr} = 0.1 \times I_R, R_L = 100\Omega$

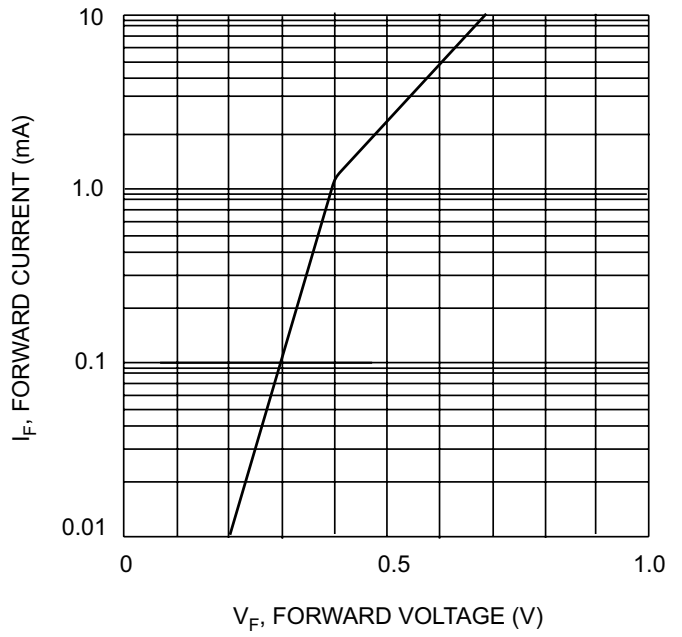
Ordering Information (Note 3)

Device	Packaging	Shipping
1N5711W-7	SOD-123	3000/Tape and Reel

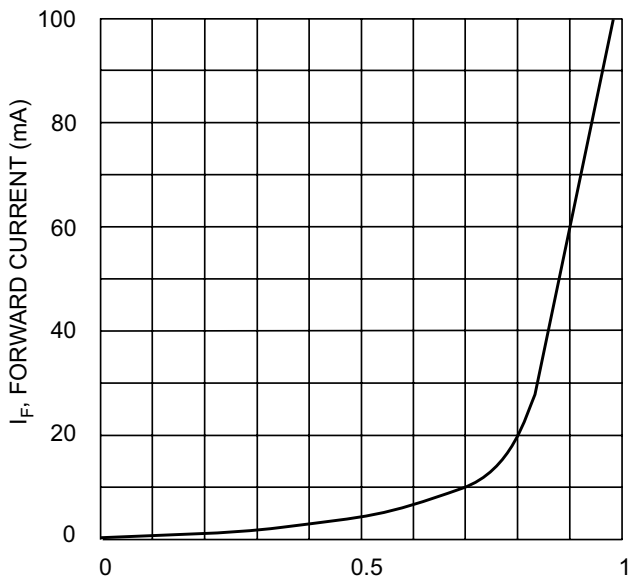
- Note:
1. Part mounted on FR-4 board with recommended pad layout, which can be found on our website at <http://www.diodes.com/datasheets/ap02001.pdf>.
 2. Short duration test pulse used to minimize self-heating effect.
 3. For Packaging Details, go to our website at <http://www.diodes.com/datasheets/ap02007.pdf>.



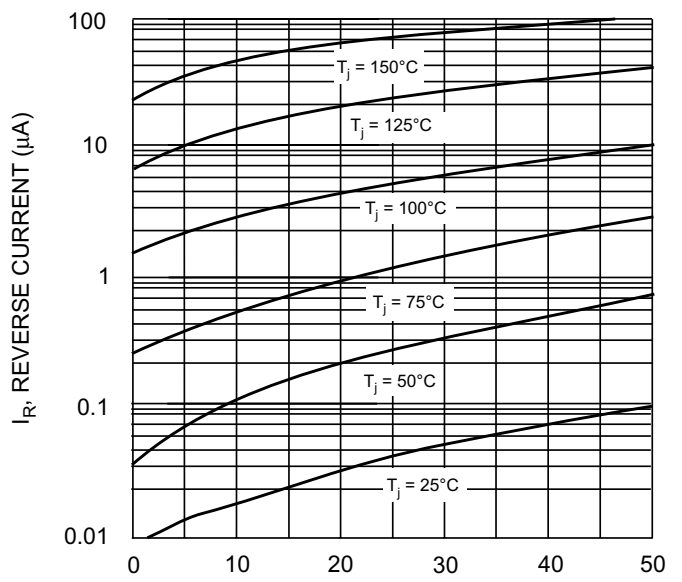
T_A , AMBIENT TEMPERATURE (°C)
Fig. 1 Power Derating Curve



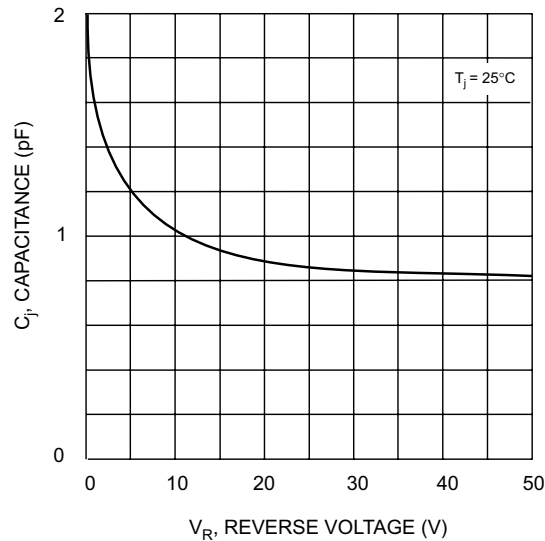
V_F , FORWARD VOLTAGE (V)
Fig. 2 Typical Forward Characteristics



V_F , FORWARD VOLTAGE (V)
Fig. 3 Typical Forward Characteristics

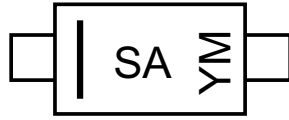


V_R , REVERSE VOLTAGE (V)
Fig. 4 Typical Reverse Characteristics



V_R , REVERSE VOLTAGE (V)
Fig. 5 Typ. Junction Capacitance vs Reverse Voltage

Marking Information



SA = Product Type Marking Code
YM = Date Code Marking
Y = Year (ex: N = 2002)
M = Month (ex: 9 = September)

Date Code Key

Year	1998	1999	2000	2001	2002	2003	2004	2005
Code	J	K	L	M	N	P	R	S

Month	Jan	Feb	March	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Code	1	2	3	4	5	6	7	8	9	O	N	D