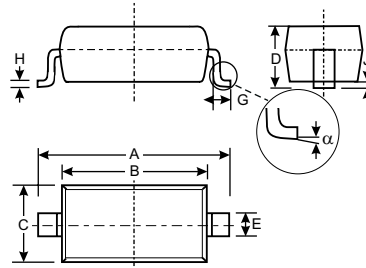


Features

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Fast Switching Time
- Low Reverse Capacitance
- Surface Mount Package Ideally Suited for Automatic Insertion

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: SB
- Weight: 0.01 grams (approx.)
- Ordering Information: See Page 3



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	1N6263W	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	60	V
RMS Reverse Voltage	V _{R(RMS)}	42	V
Forward Continuous Current	I _F	15	mA
Non-Repetitive Peak Forward Surge Current @ t ≤ 1.0s @ t = 10ms	I _{FSM}	50 2.0	mA A
Power Dissipation (Note 1)	P _d	333	mW
Thermal Resistance, Junction to Ambient Air (Note 1)	R _{θJA}	300	°C/W
Operating Temperature Range	T _j	-55 to +125	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

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>.

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

Characteristic	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 2)	$V_{(BR)R}$	60	—	—	V	$I_R = 10\mu\text{A}$
Reverse Leakage Current (Note 2)	I_{RM}	—	—	200	nA	$V_R = 50\text{V}$
Forward Voltage Drop (Note 2)	V_{FM}	—	—	0.41 1.0	V	$I_F = 1.0\text{mA}$ $I_F = 15\text{mA}$
Total Capacitance	C_T	—	—	2.2	pF	$V_R = 0\text{V}, f = 1.0\text{MHz}$
Reverse Recovery Time	t_{rr}	—	—	1.0	ns	$I_F = I_R = 5.0\text{mA}$ $I_{rr} = 0.1 \times I_R, R_L = 100\Omega$

Note: 2. Short duration test pulse used to minimize self-heating effect.

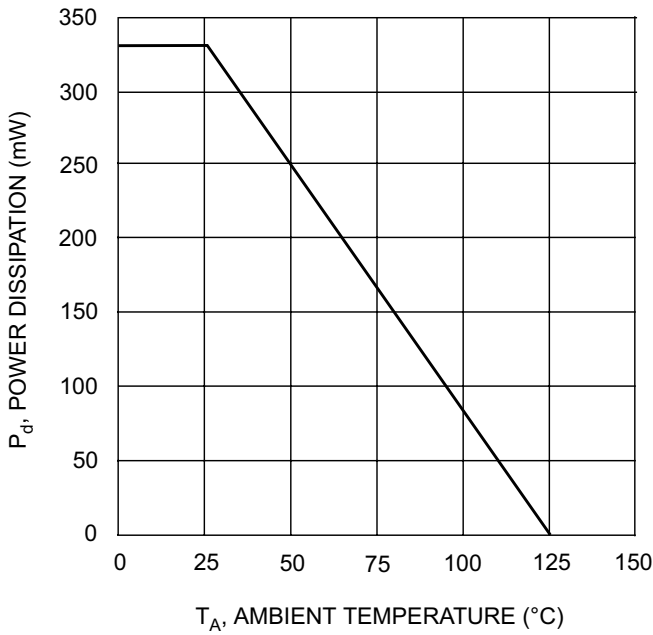


Fig. 1 Power Derating Curve

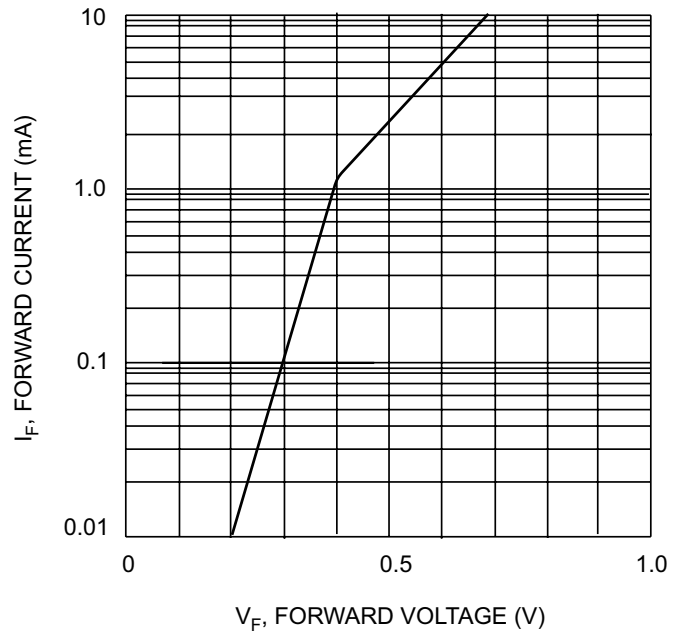


Fig. 2 Typical Forward Characteristics

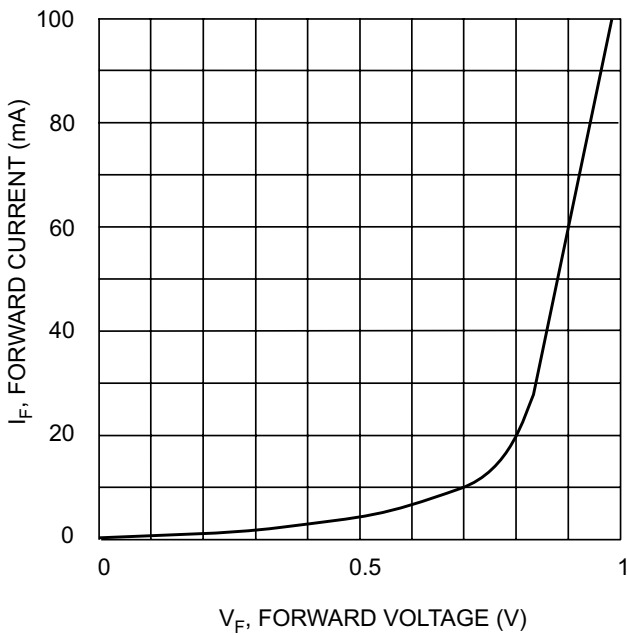


Fig. 3 Typical Forward Characteristics

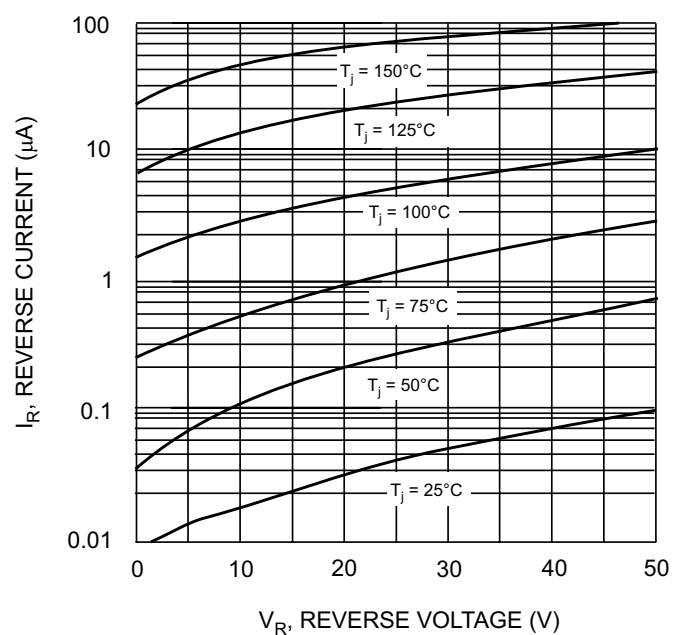


Fig. 4 Typical Reverse Characteristics

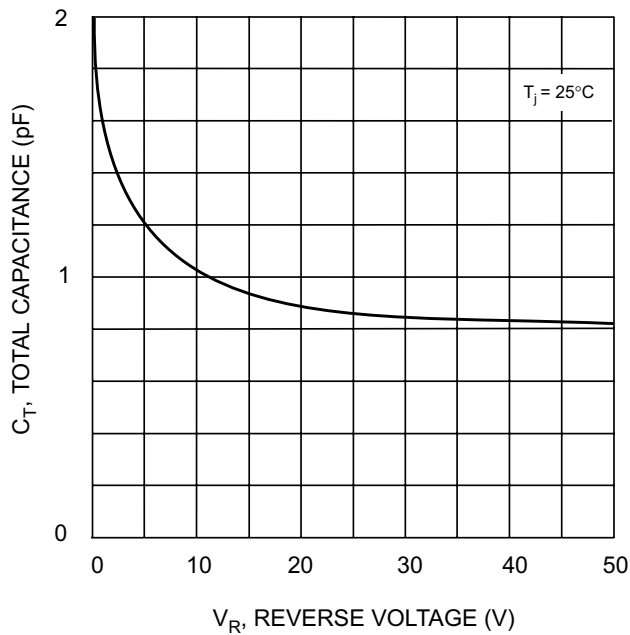


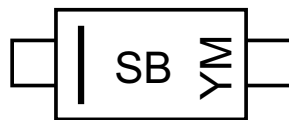
Fig. 5 Typ. Total Capacitance vs Reverse Voltage

Ordering Information (Note 3)

Device	Packaging	Shipping
1N6263W-7	SOD-123	3000/Tape and Reel

Note: 3. For Packaging Details, go to our website at <http://www.diodes.com/datasheets/ap02007.pdf>.

Marking Information



SB = 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

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