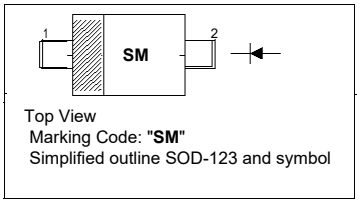
1N6263W Surface Mount Schottky Barrier Diode

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View
Marking Code: "**SM**"
Simplified outline SOD-123 and symbol

Features

- Low forward voltage
- Low reverse capacitance

Absolute Maximum Ratings (T_a = 25°C)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	60	V
Working Peak Reverse Voltage	V_{RWM}	60	V
DC Blocking Voltage	V_R	60	V
RMS Reverse Voltage	$V_{R(RMS)}$	42	V
Average Rectified Forward Current	$I_{F(AV)}$	15	mA
Non-Repetitive Peak Forward Surge Current at t = 1 s at t = 10 µs	I_{FSM}	50 2	mA A
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	300	°C /W
Power Dissipation	P_{tot}	333	mW
Junction Temperature	T_j	125	°C
Storage Temperature Range	T_{stg}	- 55 to + 125	°C

Characteristics at T_a = 25°C

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at I_R = 10 µA	$V_{(BR)R}$	60	-	V
Forward Voltage at I_F = 1 mA at I_F = 15 mA	V_F	- -	0.41 1	V
Reverse Current at V_R = 50 V	I_R	-	200	nA
Total Capacitance at V_R = 0 V, f = 1 MHz	C_{tot}	-	2.2	pF
Reverse Recovery Time at I_F = I_R = 5 mA , I_{rr} = 0.1X I_R, R_L = 100 Ω	t_{rr}	-	1	ns

Typical Characteristics

1N6263W

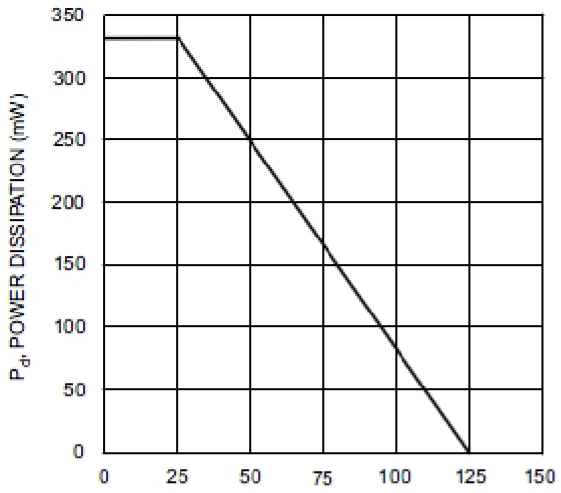


Fig.1 Power Derating Curve

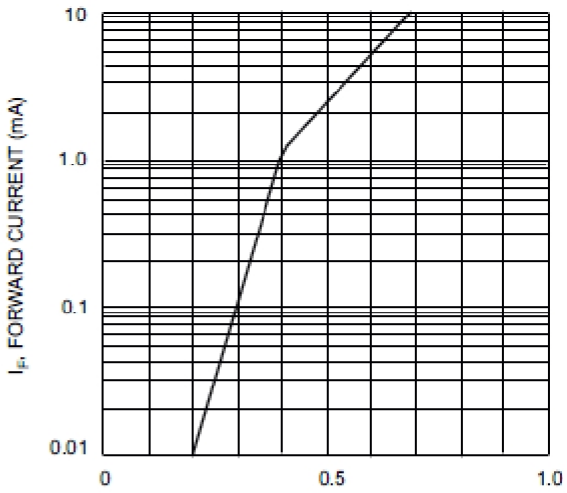


Fig. 2 Typical Forward Characteristics

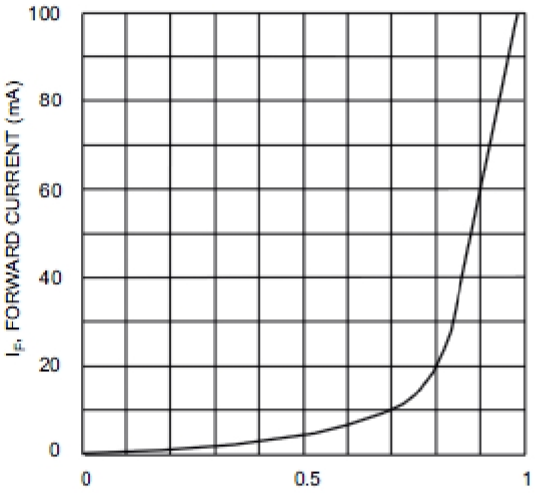


Fig. 3 Typical Forward Characteristics

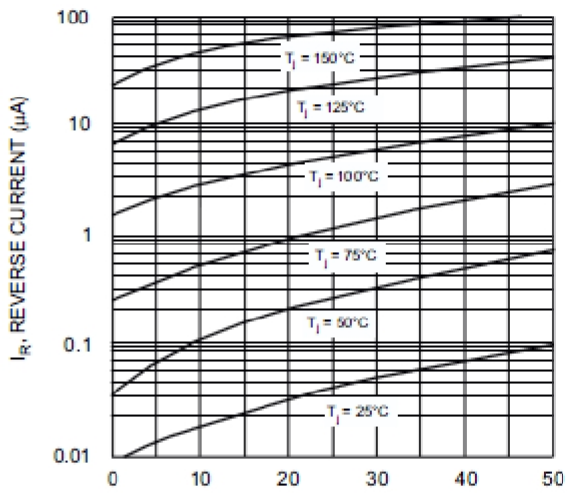


Fig. 4 Typical Reverse Characteristics

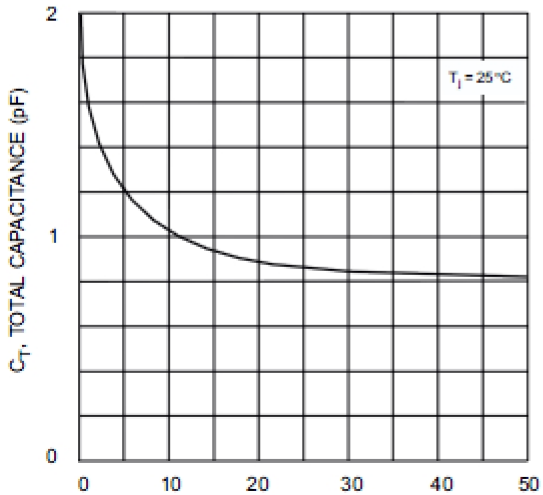
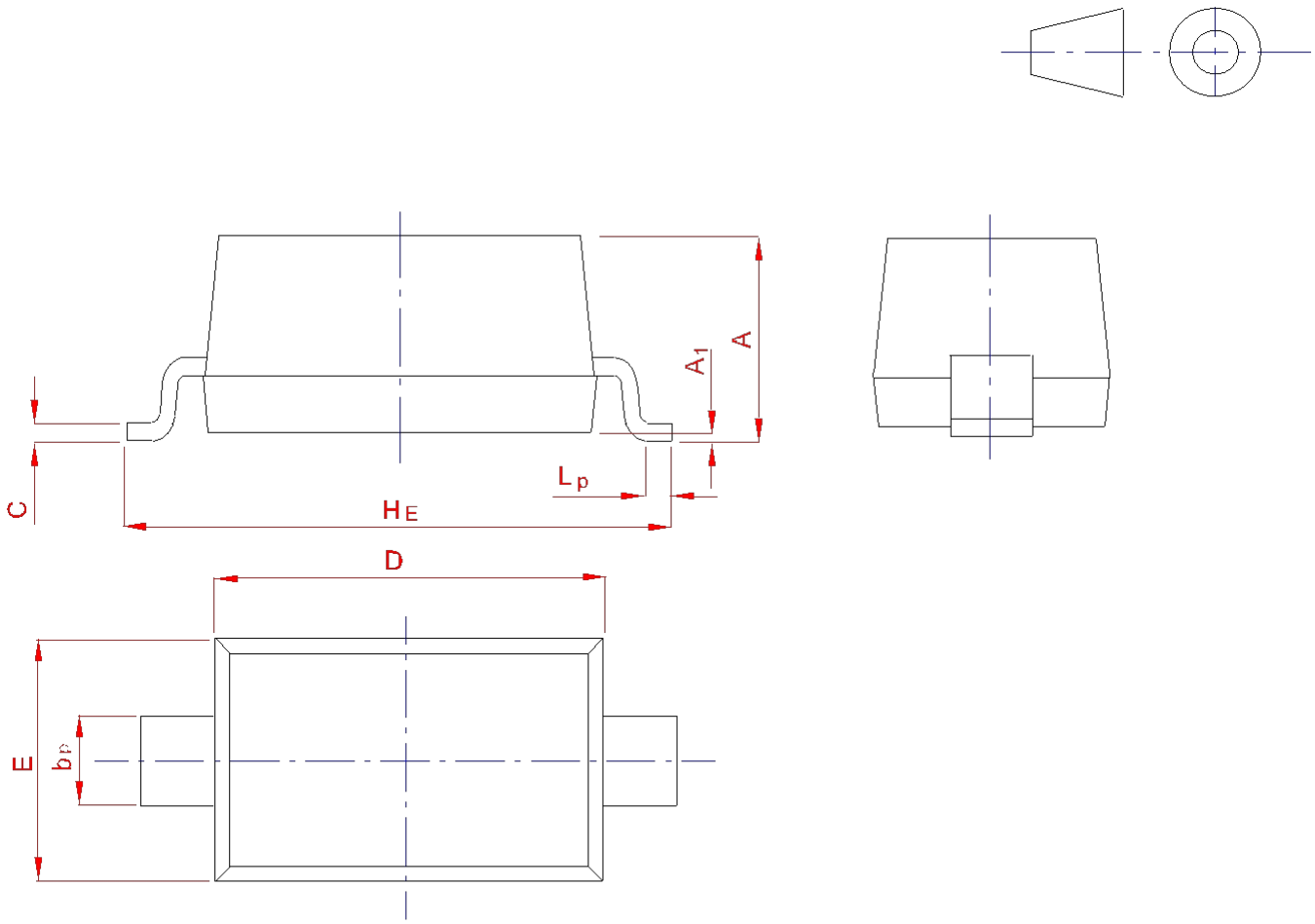


Fig. 5 Typ.Total Capacitance vs Reverse Voltage

PACKAGE OUTLINE

Plastic surface mounted package; 2 leads **SOD-123**



UNIT	A	b_p	C	D	E	H_E	A_1	L_p
mm	1.20 0.90	0.60 0.50	0.135 0.100	2.75 2.55	1.65 1.55	3.85 3.55	0.10 0.01	0.50 0.20