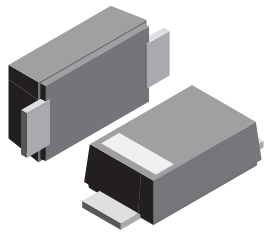
1N5711W

SURFACE MOUNT SCHOTTKY BARRIER DIODE



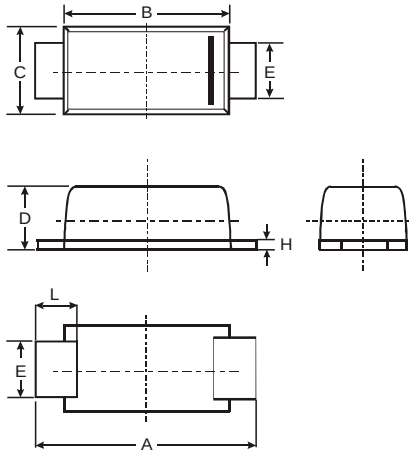
Features

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

Mechanical Data

- Case: SOD-123FL
  plastic body over passivated junction
- Terminals : Plated axial leads,
- solderable per MIL-STD-750, Method 2026
- Polarity : Color band denotes cathode end
- Weight:0.0007 ounce, 0.02 grams

RoHS COMPLIANT



SOD-123FL			
Dim	Min	Max	Typ
A	3.58	3.72	3.65
B	2.72	2.78	2.75
C	1.77	1.83	1.80
D	1.02	1.08	1.05
E	0.097	1.03	1.00
H	0.13	0.17	0.15
L	0.53	0.57	0.55
All Dimensions in mm			

Maximum Ratings T_A = 25°C unless otherwise specified

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	70	V
Power Dissipation (Infinite Heatsink)	P_D	400(1)	mW
Maximum Single Cycle Surge 10 μs Square Wave	I_{FSM}	2	A
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	0.3(1)	°C/mW
Junction Temperature	T_J	125(1)	°C
Storage temperature range	T_S	-55 to + 150 (1)	°C

Electrical Characteristics (T_J = 25°C unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	I_R = 10 μA	70	-	-	V
Reverse Current	I_R	V_R = 50 V	-	-	200	nA
Forward Voltage Drop	V_F	I_F = 1mA I_F = 15mA	- -	- -	0.41 1.0	V
Diode Capacitance	Cd	V_R = 0 V, f = 1MHz	-	-	2.0	pF
Reverse Recovery Time	Trr	I_F = I_R = 5mA, recover to 0.1I_R	-	-	1	ns

Note:

(1) Valid provided that leads at a distance of 4mm from case are kept at ambient temperature..

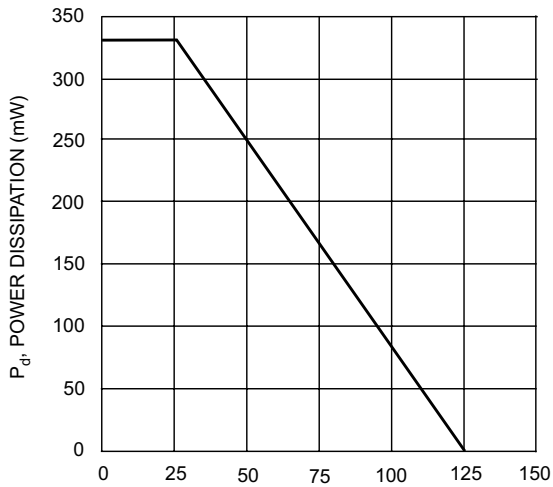


Fig.1 Power Derating Curve

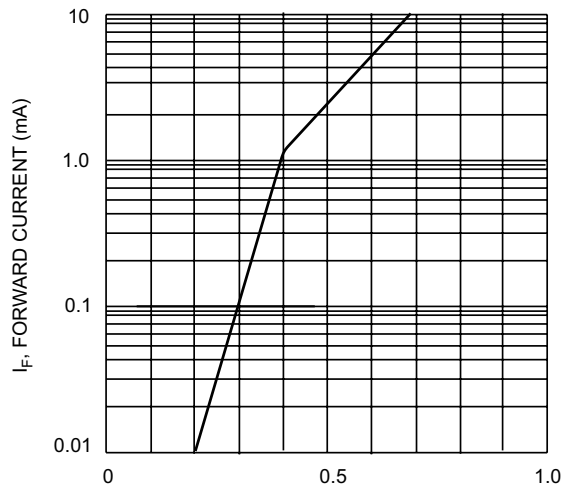


Fig. 2 Typical Forward Characteristics

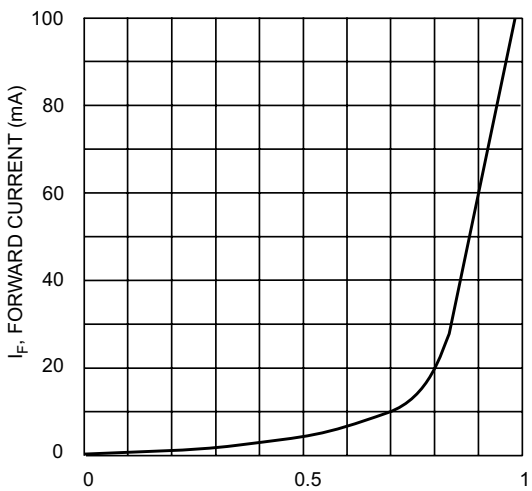


Fig. 3 Typical Forward Characteristics

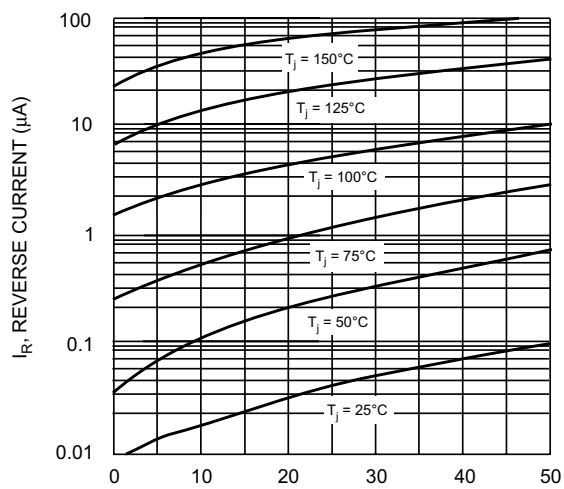


Fig. 4 Typical Reverse Characteristics

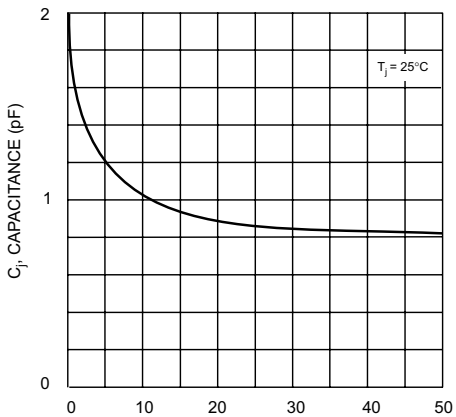


Fig. 5 Typ. Junction Capacitance vs Reverse Voltage