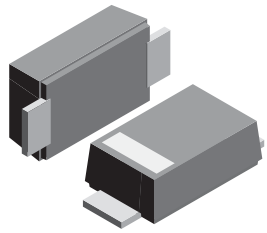
1N5711WS

SURFACE MOUNT SCHOTTKY BARRIER DIODES



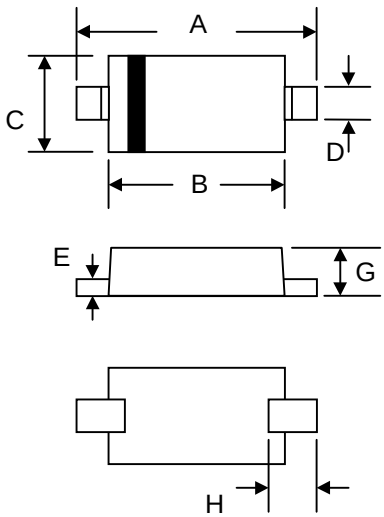
Features

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

Mechanical Data

- Case: SOD-323, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.004 grams (approx.)
- Marking: A3

RoHS COMPLIANT



SOD-323		
Dim	**Min**	**Max**
A	2.30	2.70
B	1.75	1.95
C	1.15	1.35
D	0.25	0.35
E	0.05	0.15
G	0.70	0.95
H	0.30	—
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..

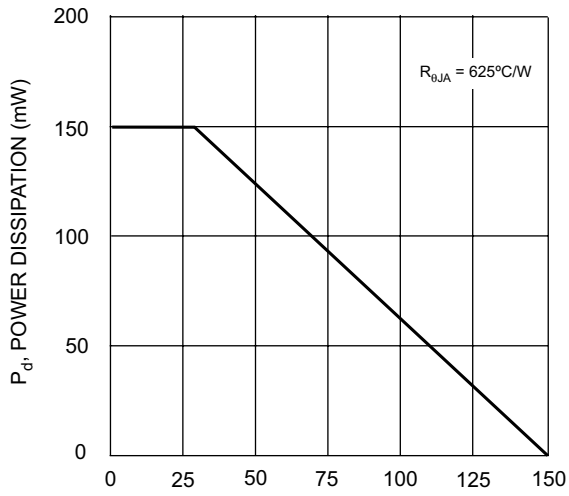


Fig. 1 Derating Curve

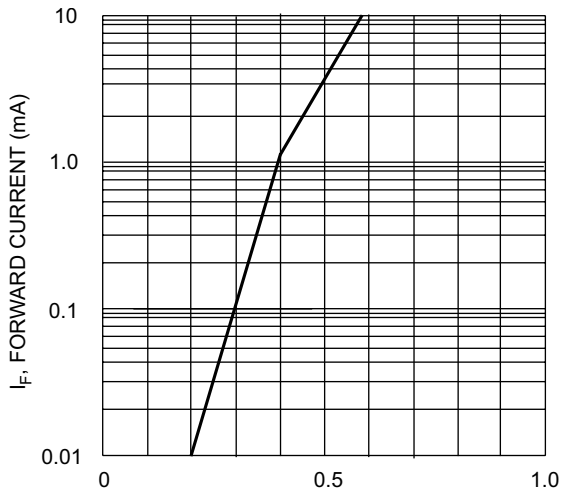


Fig. 2 Typical Forward Characteristics

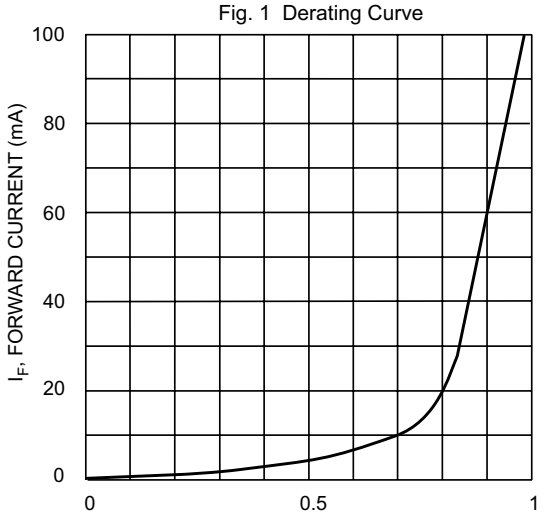


Fig. 3 Typical Forward Characteristics

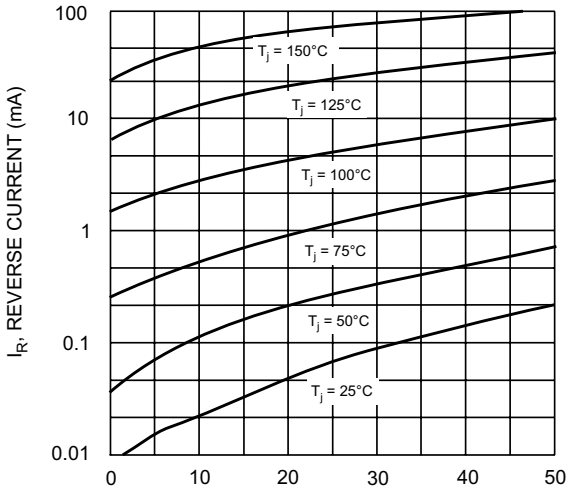


Fig. 4 Typical Reverse Characteristics

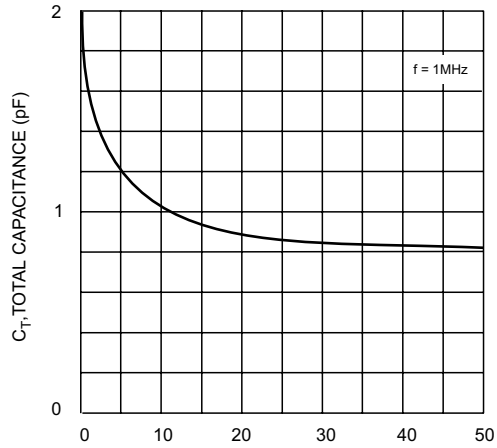


Fig. 5 Total Capacitance vs Reverse Voltage