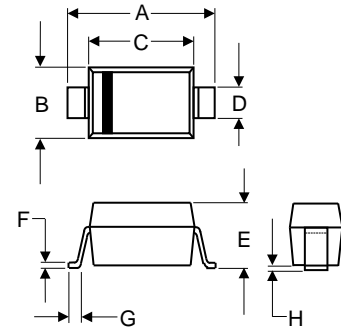


Features

- * Fast Switching Diode
- * Marking Code: "W2"



RoHS
COMPLIANT



SOD-323				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.091	0.110	2.30	2.80
B	0.045	0.053	1.15	1.35
C	0.063	0.071	1.60	1.80
D	0.010	0.016	0.25	0.40
E	0.031	0.043	0.80	1.10
F	---	0.006	---	0.15
G	0.004	0.020	0.10	0.50
H	---	0.004	---	0.10

Maximum Ratings (T_A=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	100	V
Reverse Voltage	V_R	80	V
Average Rectified Forward Current	$I_{F(AV)}$	150	mA
Forward Continuous Current	I_{FM}	300	mA
Non-Repetitive Peak Forward Surge Current (at t = 1 μs)	I_{FSM}	0.5	A
Power Dissipation	P_d	200	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	- 65 to + 150	°C

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

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at I _F = 5 mA at I _F = 10 mA at I _F = 100 mA at I _F = 150 mA	V _F	0.62 - - -	0.72 0.855 1 1.25	V
Reverse Leakage Current at V _R = 80 V at V _R = 20 V at V _R = 75 V, T _J = 150 °C at V _R = 25 V, T _J = 150 °C	I _R	- - - -	100 25 50 30	nA nA μA μA
Reverse Breakdown Voltage at I _R = 100 μA	V _{(BR)R}	80	-	V
Total Capacitance at V _R = 0.5 V, f = 1 MHz	C _{tot}	-	4	pF
Reverse Recovery Time at I _F = I _R = 10 mA, I _{rr} = 0.1 X I _R , R _L = 100 Ω	t _{rr}	-	4	ns

Ratings and Characteristic Curves

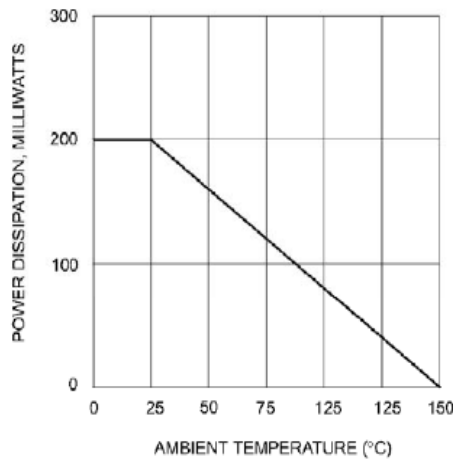


Fig. 1 Forward Current Derating Curve

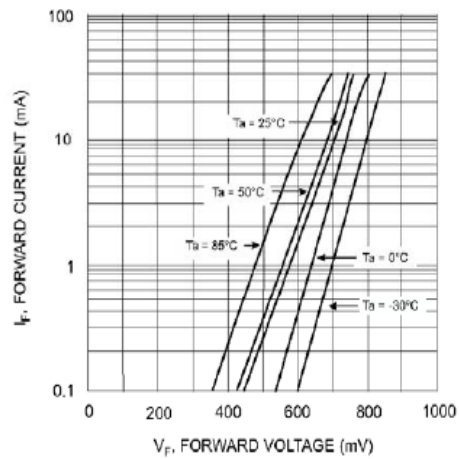


Fig. 2 Typical Forward Characteristics

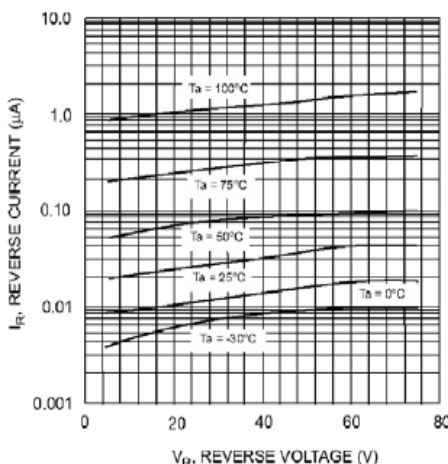


Fig. 3 Typical Reverse Characteristics

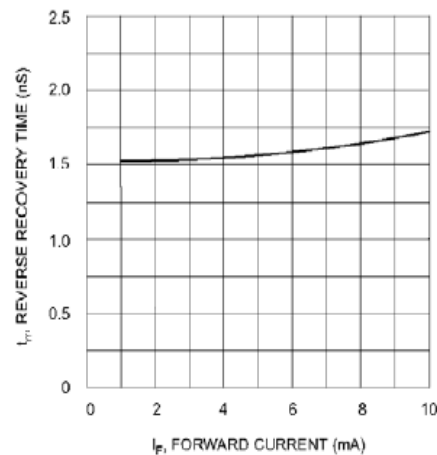


Fig. 4 Reverse Recovery Time vs. Forward Current



1N4448WS

Silicon Epitaxial Planar Switching Diode

Ordering Information

Part No.	Package	Packing Code	Packing
1N4448WS	SOD-323	R30	3000pcs/Reel

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