

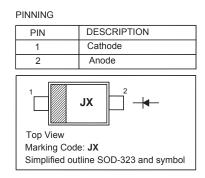
SOD-323 Plastic-Encapsulate Diodes

1N3004WS Silicon Epitaxial Planar Diode

High Voltage Switching Diode

Features

- · Fast switching speed
- High Conductance
- High Reverse Breakdown Voltage



Absolute Maximum Ratings (T_a = 25 °C)

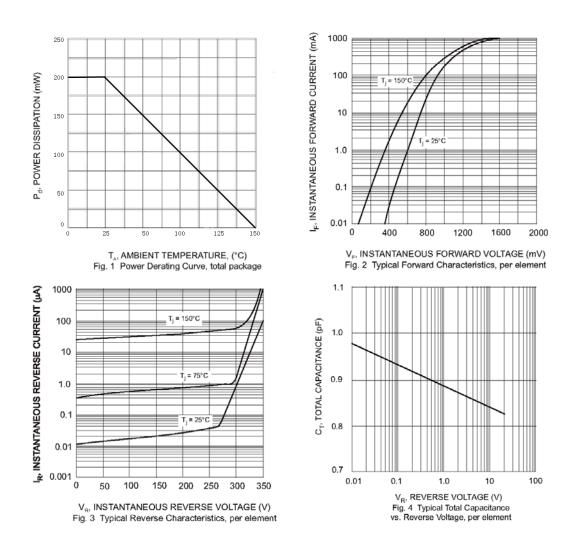
Parameter		Symbol	Value	Unit
Repetitive Peak Reverse Voltage		V _{RRM}	350	V
Working Peak Reverse Voltage		V _{RWM}	300	V
Reverse Voltage		V _R	300	V
Continuous Forward Current		I _F	225	mA
Peak Repetitive Forward Current		I _{FRM}	625	mA
Non-Repetitive Peak Forward Surge Current	at t = 1 µs at t = 1 s	I _{FSM}	4 1	А
Power Dissipation		P _d	200	mW
Operating and Storage Temperature Range		T _j , T _{stg}	- 65 to + 150	°C

Characteristics at T_a = 25 °C

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at $I_F = 20 \text{ mA}$ at $I_F = 100 \text{ mA}$ at $I_F = 200 \text{ mA}$	V _F	- - -	0.87 1 1.25	V
Reverse Current at V_R = 240 V at V_R = 240 V, T_j = 150 °C	I _R	-	100 100	nA μA
Reverse Breakdown Voltage at I _R = 100 μA	V _{(BR)R}	300	-	V
Total Capacitance at V _R = 0, f = 1 MHz	CT	-	5	pF
Reverse Recovery Time at $I_F = I_R = 30$ mA, $i_{rr} = 0.1$ I_R , $R_L = 100 \Omega$	t _{rr}	-	50	ns



Typical Characteristics

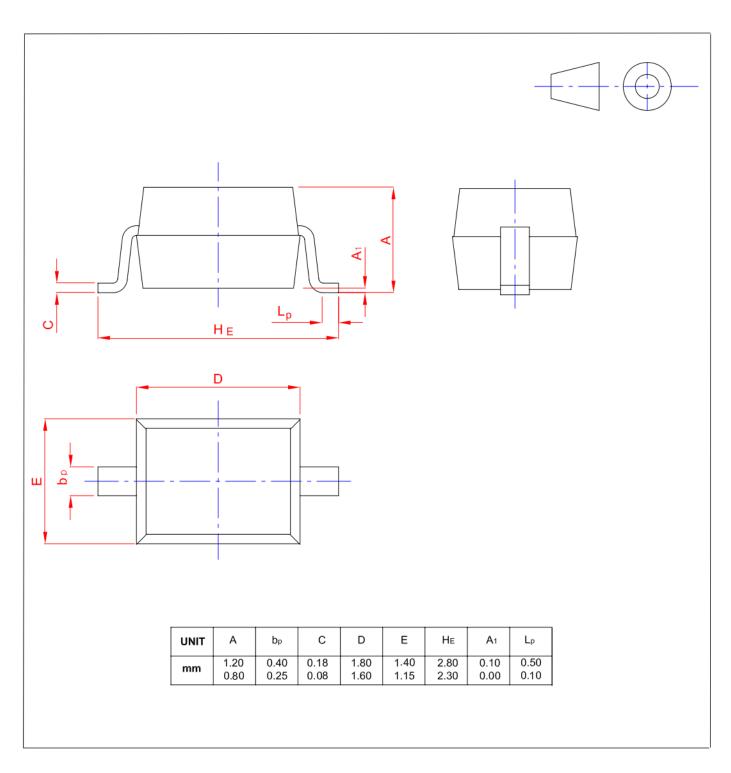




PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323



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