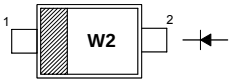
1N914WS

Surface Mount Switching Diode

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View
Marking Code: "**W2**"
Simplified outline SOD-323 and symbol

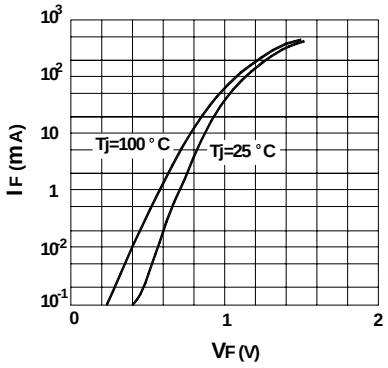
Absolute Maximum Ratings (T_a = 25 °C)

Parameter		Symbol	Value	Unit
Repetitive Reverse Voltage		V_{RRM}	100	V
Average Rectified Forward Current		$I_{F(AV)}$	200	mA
Non-repetitive Peak Forward Surge Current	at t = 1 s at t = 1 μs	I_{FSM}	0.5 1	A
Power Dissipation		P_{tot}	200	mW
Thermal Resistance Junction to Ambient		$R_{\theta JA}$	625	°C/W
Junction Temperature		T_j	150	°C
Storage Temperature Range		T_{stg}	- 55 to + 150	°C

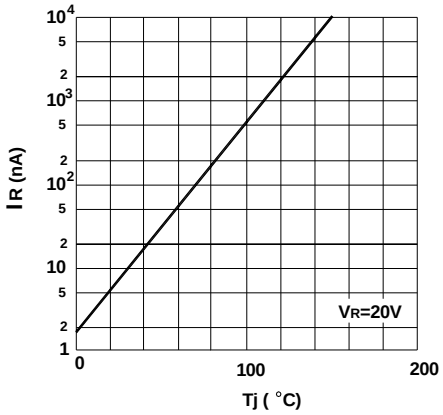
Electrical Characteristics (T_a = 25 °C)

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at I_F = 10 mA	V_F	-	1	V
Reverse Breakdown Voltage at I_R = 5 μA at I_R = 100 μA	 $V_{(BR)R}$ $V_{(BR)R}$	 75 100	 - -	 V V
Reverse Current at V_R = 20 V at V_R = 75 V at V_R = 20 V, T_J = 150 °C	I_R	 - - -	 25 5 50	 nA μA μA
Capacitance at V_R = 0 V, f = 1 MHz	C_{tot}	-	4	pF
Reverse Recovery Time at I_F = I_R = 30 mA, R_L = 100 Ω, I_{RR} = 3 mA	t_{rr}	-	50	ns

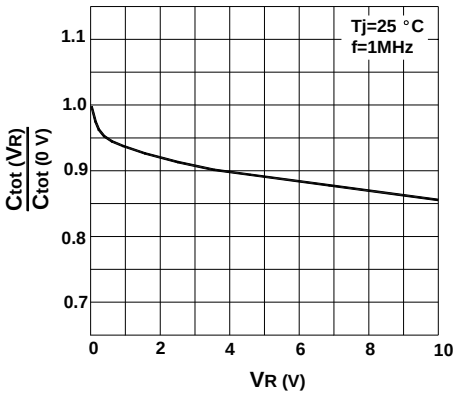
Forward characteristics



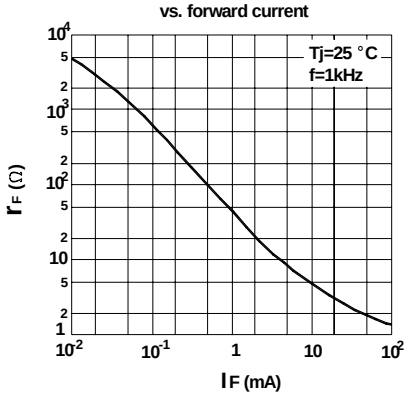
Leakage current vs. junction temperature



Reverse capacitance vs. reverse voltage

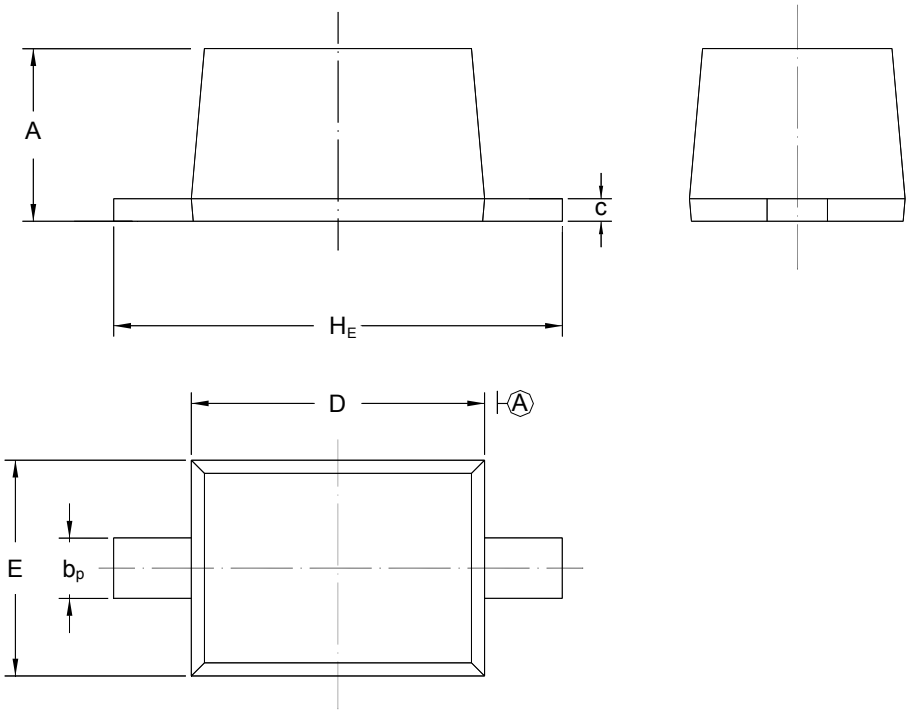


Dynamic forward resistance vs. forward current



PACKAGE OUTLINE

Plastic surface mounted package; 2 leads **SOD-323**



UNIT	A	b_p	C	D	E	H_E
mm	1.10 0.80	0.40 0.25	0.15 0.00	1.80 1.60	1.35 1.15	2.80 2.30