

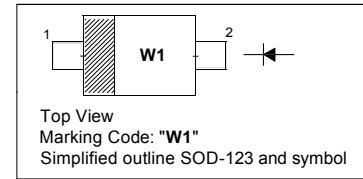
Silicon Epitaxial Planar Switching Diode

Features

- SOD-123 package
- Fast switching

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	75	V
Reverse Voltage	V_R	50	V
Average Rectified Forward Current	$I_{F(AV)}$	150	mA
Non-repetitive Peak Forward Surge Current (at $t < 1$ s)	I_{FSM}	500	mA
Power Dissipation	P_{tot}	410	mW
Thermal Resistance from Junction to Ambient Air	$R_{\theta JA}$	305	$^\circ\text{C/W}$
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 65 to + 150	$^\circ\text{C}$

Electrical Characteristics ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at $I_F = 50$ mA	V_F	-	1	V
Reverse Breakdown Voltage at $I_R = 5$ μA	$V_{(BR)R}$	75	-	V
Reverse Current at $V_R = 50$ V at $V_R = 20$ V, $T_j = 150^\circ\text{C}$	I_R	-	50 50	nA μA
Total Capacitance at $V_R = 0$ V, $f = 1$ MHz	C_{tot}	-	2	pF
Reverse Recovery Time at $I_F = 10$ mA through $I_R = 10$ mA to $I_R = 1$ mA at $I_F = 10$ mA to $I_R = 1$ mA, $V_R = 6$ V, $R_L = 100$ Ω	t_{rr}	-	4 2	ns



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SOD-123



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