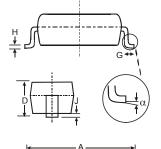


SURFACE MOUNT FAST SWITCHING DIODE

Features

- Fast Switching Speed.
- General Purpose Rectification.
- Silicon Epitaxial Planar Construction.
- Marking Code:W1



SOD-123					
Dim	Min	Max			
Α	3.55	3.85			
В	2.55	2.85			
С	1.40	1.70			
D	_	1.35			
E	0.45	0.65			
	0.55 Typical				
G	0.25	_			
Н	0.11 Typical				
J	_	0.10			
α	0°	8°			
All Dimensions in mm					

Maximum Ratings @ T_A = 25°C unless otherwise specified

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
Non-repetitive Peak Forward			
Surge Current at t = 1 µs	I _{FSM}	4	Α
Power Dissipation	P _{tot}	400	mW
Thermal Resistance from Junction to Ambient Air	$R_{\theta JA}$	312	°C/W
Junction Temperature	Tj	150	$^{\circ}$
Storage Temperature Range	T _{stg}	- 65 to + 150	℃

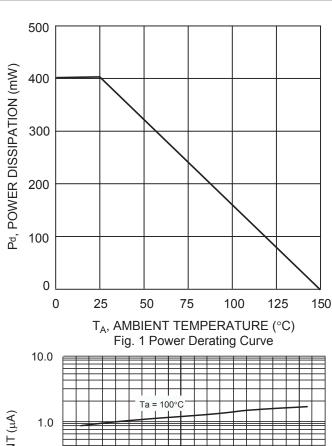
Electrical Characteristics @ T_A = 25°C unless otherwise specified

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 $I_R = 100 \mu A$	V _{(BR)R}	80	-	V
Total Capacitance at $V_R = 0.5 \text{ V}$, $f = 1 \text{ MHz}$	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



SURFACE MOUNT FAST SWITCHING DIODE

TYPICAL TRANSIENT CHARACTERISTICS



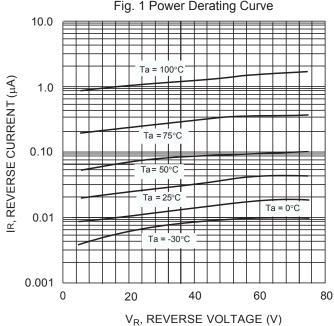
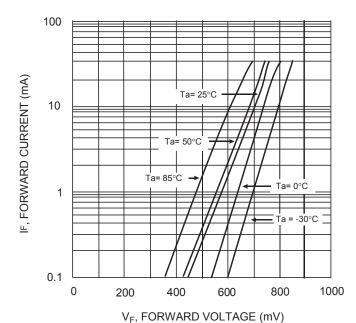
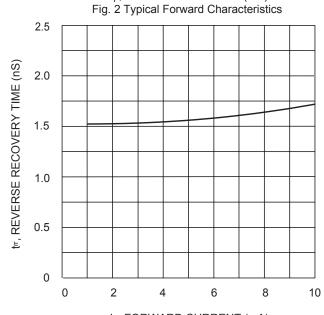


Fig. 3 Typical Reverse Characteristics







SURFACE MOUNT FAST SWITCHING DIODE

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