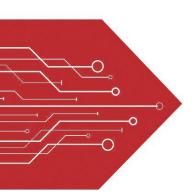
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ESD

TVS

TSS

MOV

GDT

PLED

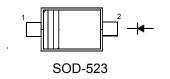
Broduct data speet





Features

- Fast switching speed
- Ultra-small surface mount package
- For general purpose switching applications
- High conductance



RNNING

PIN DESCRIPTION Cathode Anode

MARK:T4

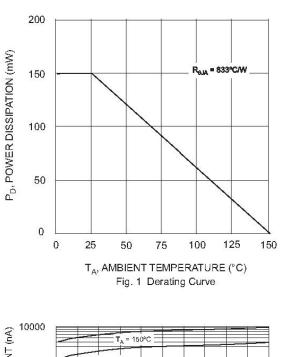
Absolute Maximum Ratings (T_a = 25 °C)

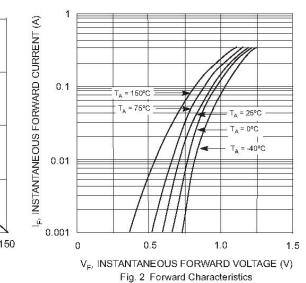
Parameter	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	100	V
Reverse Voltage	V _R	75	V
Average Rectified Forward Current	I _{F(AV)}	125	mA
Forward Continuous Current	I _{FM}	250	mA
Non-repetitive Peak Forward Surge Current at t = 1 µs at t = 100 m	s I _{FSM}	2 1	Α
Power Dissipation	P _{tot}	150	mW
Thermal Resistance Junction to Ambient Air	R _{èJA}	833	°C/W
Operating Temperature Range	Tj	- 65 to + 150	°C
Storage Temperature Range	T _{stg}	- 65 to + 150	°C

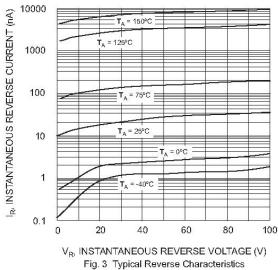
Characteristics at T_a = 25 °C

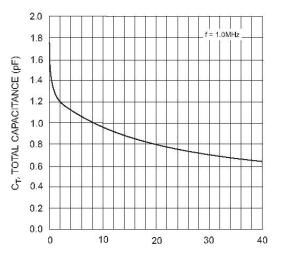
Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 1 \mu A$	V _{(BR)R}	75	-	٧
Forward Voltage at I_F = 1 mA at I_F = 10 mA at I_F = 50 mA at I_F = 150 mA	V _F	- - - -	0.715 0.855 1 1.25	V
Peak Reverse Current at V_R = 75 V at V_R = 20 V at V_R = 75 V, T_J = 150 °C at V_R = 25 V, T_J = 150 °C	I _R		1 25 50 30	µА n А µА µА
Total Capacitance at V _R = 0 V, f = 1 MHz	Ст	-	2	pF
Reverse Recovery Time at I_{rr} = 0.1 X I_R , I_F = I_R = 10 mA, R_L = 100 Ω	t _{rr}	-	4	ns







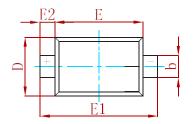


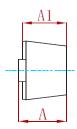


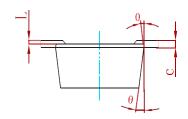
 $V_{R^{\prime}}$ REVERSE VOLTAGE (V) Fig. 4 Typical Capacitance vs. Reverse Voltage



PACKAGE MECHANICAL DATA

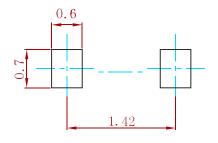






Cumbal	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min	Max	Min	Max	
A	0.510	0.770	0.020	0.031	
A1	0.500	0.700	0.020	0.028	
b	0.250	0.350	0.010	0.014	
С	0.080	0.150	0.003	0.006	
D	0.750	0.850	0.030	0.033	
E	1.100	1.300	0.043	0.051	
E1	1.500	1.700	0.059	0.067	
E2	0.200	REF	0.008	REF	
L	0.010	0.070	0.001	0.003	
0	7° F	REF	7° F	REF	

Suggested Pad Layout



Note:

- 1. Controlling dimension:in millimeters.
- 2.General tolerance:± 0.05mm.
- 3. The pad layout is for reference purposes only.

REEL SPECIFICATION

P/N	PKG	QTY
1N4148WT-MS	SOD-523	3000



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