1N4148WT

75V-0.15A Fast Switching Diodes

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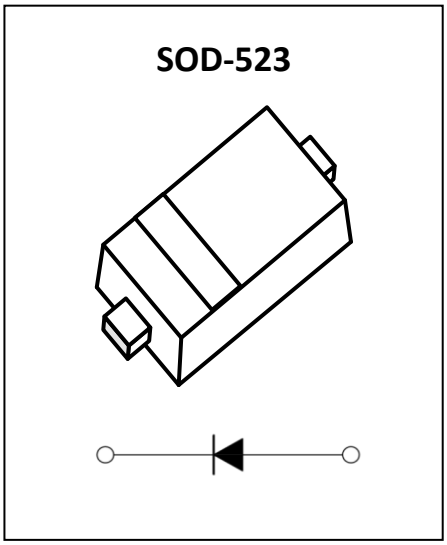


Feature

- V_R 75V
- I_{FAV} 150mA

Application

- Extreme fast switches

MARKING:

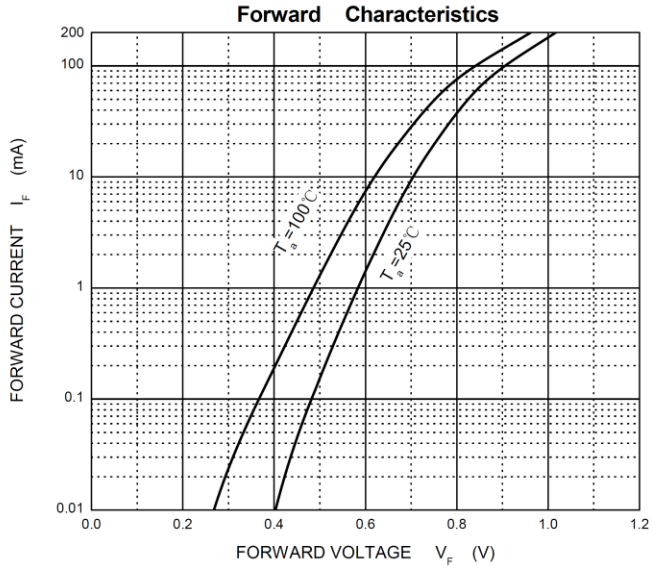
ABSOLUTE MAXIMUM RATINGS (T_A=25℃ unless otherwise noted)

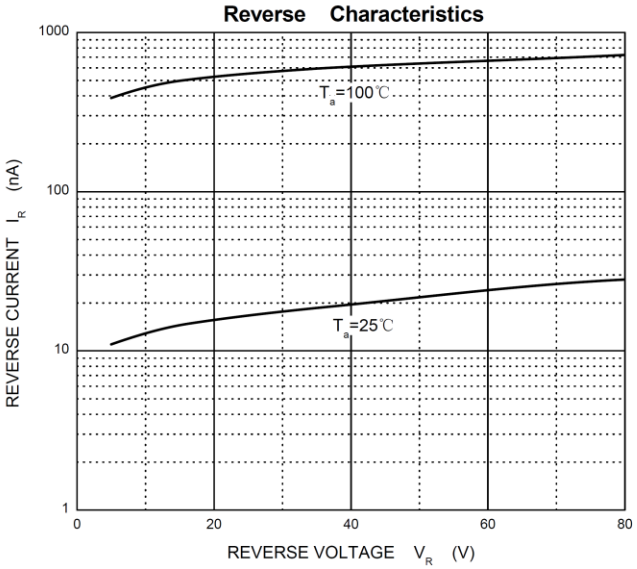
Parameter	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V_{RSM}	100	V
Repetitive Peak Reverse Voltage	V_{RRM}	75	V
Average rectified output current	I_O	0.15	A
Forward continuous current	I_{FM}	0.30	A
Non-repetitive Peak Forward Surge Current @ t=8.3 ms	I_{FSM}	2	A
Power Dissipation	P_D	0.15	W
Junction Temperature	T_J	150	℃
Storage Temperature	T_{STG}	-65 ~ +150	℃

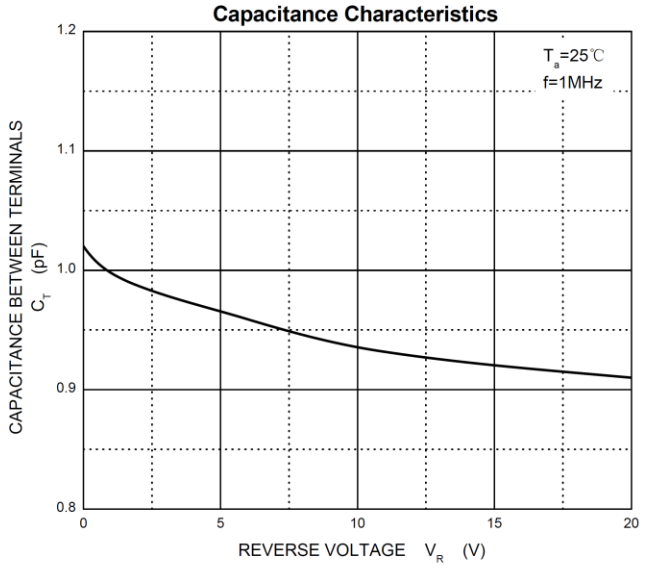
ELECTRICAL CHARACTERISTICS (T_A=25℃ unless otherwise noted)

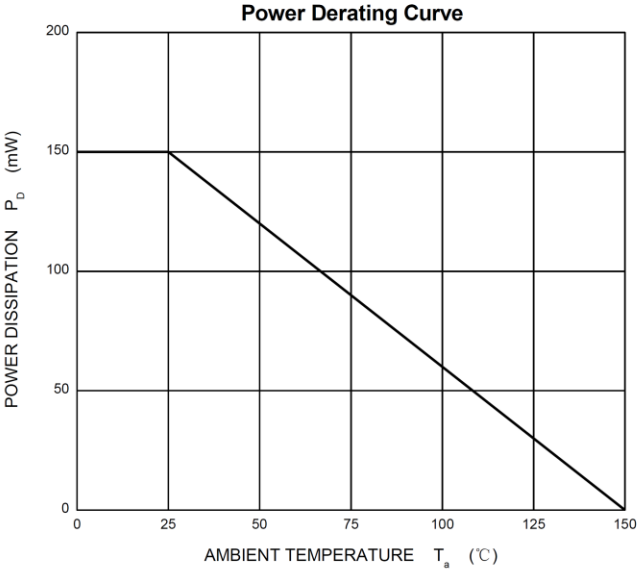
Parameter	Symbol	Test Condition	Min	Max	Unit
Forward voltage	V_F	I_F =1mA		0.715	V
		I_F =10mA		0.855	V
		I_F =50mA		1.0	V
		I_F =150mA		1.25	V
Reverse current	I_R	V_R =20V		25	nA
		V_R =75V		1	μA
Diode capacitance	C_D	VR=0V, f=1MHz		2	pF
Reverse Recovery Time	trr	IF=IR=10mA，I_{rr}=0.1*IR, RL=100Ω		4	ns

Typical Electrical and Thermal Characteristics

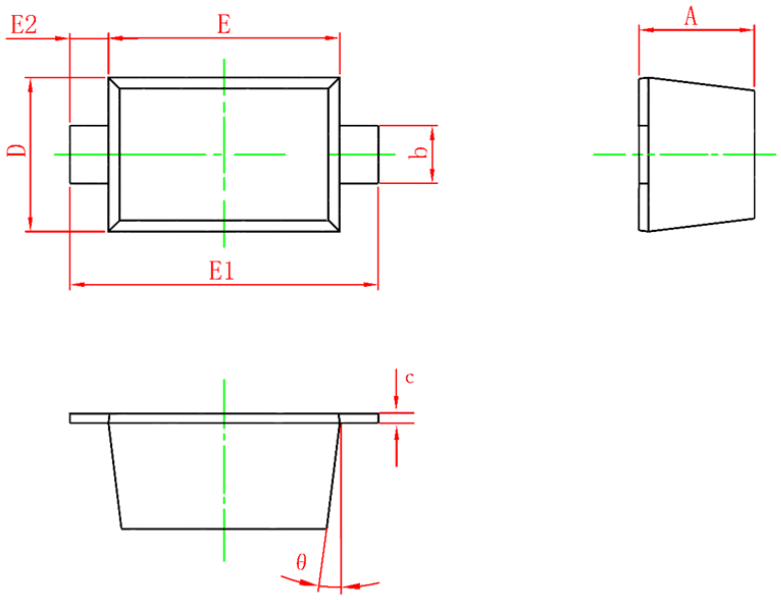








SOD-523 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.470	0.770	0.018	0.030
b	0.250	0.350	0.010	0.014
c	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	0.200REF		0.008REF	
θ	7°REF		7°REF	