鲁晶 LUJING

1N4148WT

Small Signal Switching Diodes

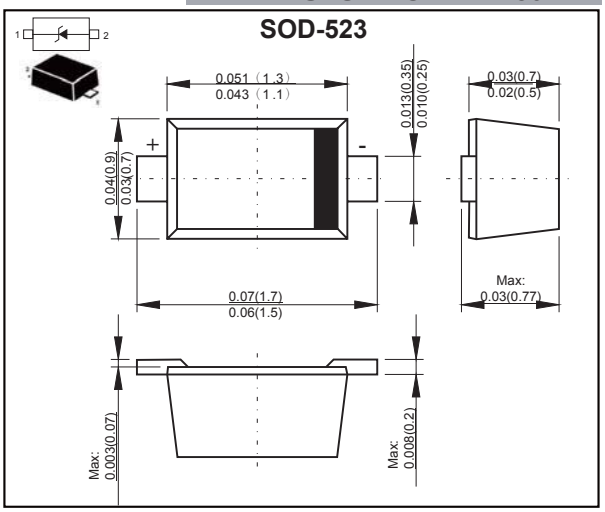
VOLTAGE RANGE: 100V
PEAK PULSE POWER:150mW

FEATURES

- ●Fast switching devices
- ●Low Reverse Current
- ●Matte Tin (Sn) Lead finish
- ●Surface Mount Package Ideally Suited for Automatic Insertion
- ●For General Purpose Switching Applications
- ● High Conductance

MECHANICAL DATA

- ●Case: SOD-523 Micro SMD package
- ●Polarity: Color band denotes cathode end
- ●Mounting Position: Any



MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified

Symbol	Parameter	Value	Unit
V_{RM}	Non-Repetitive Peak Reverse Voltage	100	V
V_R	Reverse Voltage	75	V
V_{RRM}	Peak Repetitive Reverse Voltage		
V_{RWM}	Working Peak Reverse Voltage		
$V_{R(RMS)}$	RMS Reverse Voltage	53	V
I_O	Average Rectified Output Current	150	mA
I_{FM}	Forward Continuous Current	300	mA
I_{FSM}	Non-repetitive Peak Forward Surge Current@t=8.3ms	2	A
P_D	Power Dissipation	150	mW
$R_{\Theta JA}$	Thermal Resistance from Junction to Ambient	833	℃/W
T_j	Junction Temperature	150	℃
T_{stg}	Storage Temperature	-55~+150	℃

Electrical Specification (T_A=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	I_R=1μA	75			V
Reverse current	I_R	V_R=75V			1	μA
		V_R=20V			25	nA
Forward voltage	V_F	I_F=1mA			0.715	V
		I_F=10mA			0.855	V
		I_F=50mA			1	V
		I_F=150mA			1.25	V
Total capacitance	C_{tot}	V_R=0V,f=1MHz			2	pF
Reverse recovery time	t_{rr}	I_F= I_R =10mA, I_{rr}=0.1*I_R,R_L=100Ω			4	ns

MARKING: T4

RATINGS AND CHARACTERISTIC CURVES

Typical Characteristics