

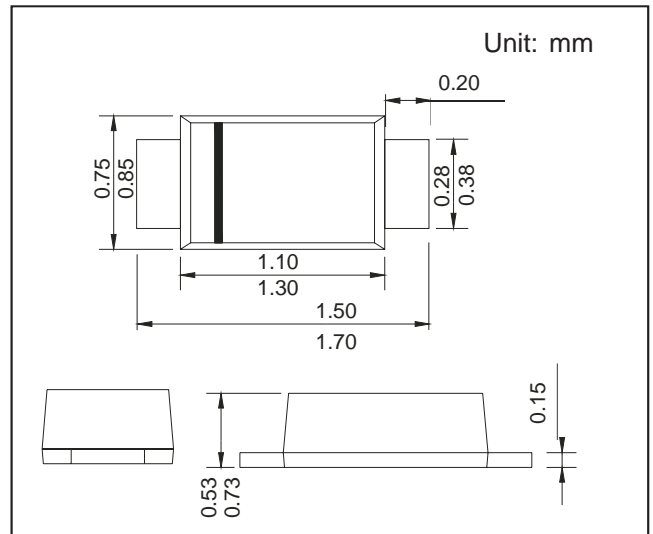
## SOD 23 Small Signal Switching Diodes

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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

@ 25°C Ambient Temperature (unless otherwise noted)

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
$R_{JA}$	Thermal Resistance from Junction to Ambient	833	/ W
$T_j$	Junction Temperature	150	/
$T_{stg}$	Storage Temperature	-55~+150	/

## Electrical Specification ( $T_A=25^\circ C$ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	$I_R=1\mu A$	75			V
Reverse current	$I_R$	$V_R=75V$			1	$\mu A$
		$V_R=20V$			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	$t_{rr}$	$I_F=I_R=10mA, I_{rr}=0.1*I_R, R_L=100\Omega$			4	ns

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RATINGS AND CHARACTERISTIC CURVES

