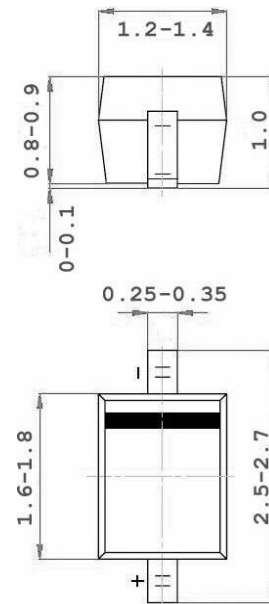


**SWITCHING DIODE**

 VOLTAGE RANGE: 30 VOLTS  
 CURRENT: 200mA

**FEATURES**

- Low turn-on voltage
- Fast switching
- This device is protected by a PN junction guard ring against excessive voltage, such as electrostatic discharge
- Ideal for precaution of MOS devices, steering, biasing, and coupling diodes for fast switching and low logic level application.
- Microminiature plastic package

**MARKING: S21**
**SOD-323**


UNIT:mm

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Parameters	Symbols	Limits	UNITS
Non-Repetitive Peak Reverse Voltage	$V_{RM}$	30	V
Forward Current	$I_{FM}$	200	mA
Forward Surge Current $t_p = 10ms$	$I_{FSM}$	1	A
Power Dissipation $T_c = 25^\circ C$	$P_{tot}$	250	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	500	$^\circ C/W$
Junction Temperature	$T_J$	150	$^\circ C$
Storage Temperature	$T_{STG}$	-65~+150	$^\circ C$

**ELECTRICAL RATINGS**

Parameters	Symbols	Test conditions	Min.	Typ.	Max.	UNITS
Reverse Breakdown Voltage	$V_R$	$I_R = 100\mu A$	30			V
Forward Voltage	$V_F$	$I_F = 2mA$		260		mV
		$I_F = 15mA$		320		
		$I_F = 100mA$		420		
		$I_F = 200mA$		490	550	
Reverse Current	$I_R$	$V_R = 30V$			5	$\mu A$
Capacitance between Terminals	$C_T$	$V_R = 10V, f = 1MHz$			15	pF

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