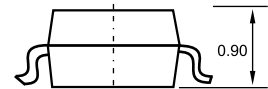
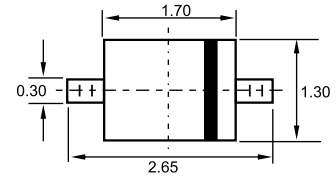



**SOD-323**

**Features**

- ◇ LOW Turn-on Voltage
- ◇ Fast Switching
- ◇ PN Junction Guard for Transient and ESD Protection
- ◇ Designed for Surface Mount Application
- ◇ Plastic Material –UL Recognition Flammability Classification 94V-O

**Maximum Ratings and Electrical Characteristics**

Rating at 25°C ambient temperature unless otherwise specified.

Dimensions in inches and (millimeters)

**Maximum Ratings**

Parameter	Symbol	Limits	Unit
Peak Repetitive Peak reverse voltage	$V_{RRM}$	40	V
Working Peak Reverse Voltage	$V_{RWM}$		
DC Blocking Voltage	$V_R$		
Forward Continuous Current	$I_F$	200	mA
Peak forward surge current @<1.0s	$I_{FSM}$	600	mA
Power Dissipation	$P_d$	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	625	°C/W
Storage temperature	$T_{STG}$	-55 to +150	°C

**Electrical Ratings**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Breakdown Voltage	$V_{(BR)R}$	40			V	$I_R=10\mu A$
Forward voltage	$V_{F1}$			0.38	V	$I_F=1mA$
	$V_{F2}$			0.5	V	$I_F=10mA$
	$V_{F3}$			1	V	$I_F=40mA$
Reverse current	$I_R$		20	200	nA	$V_R=30V$
Capacitance between terminals	$C_T$		4	5	pF	$V_R=0V, f=1MHz$
Reverse Recovery Time	$t_{rr}$			5	ns	$I_F=I_R=10mA$ $I_{rr}=0.1I_R, R_L=100\Omega$

## Typical Characteristics

