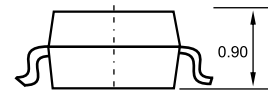
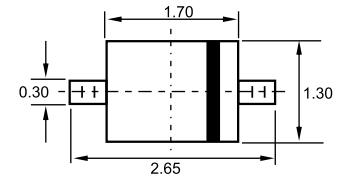


## SOD-323



## Features

- ✧ Low Forward voltage — 0.35Volts(Typ.).  
@ $I_F=10\text{mA}$ .
- ✧ Extremely fast switching speed.
- ✧ Ultra-small surface mount package.
- ✧ PN junction guard ring for transient and ESD protection.

## Applications

- ✧ Schottky barrier detector and switching diodes.

Dimensions in inches and (millimeters)

## Ordering Information

Type No.	Marking	Package Code
BAT54H	JV	SOD-323

## MAXIMUM RATING @ $T_a=25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Limits	Unit
DC reverse voltage	$V_R$	30	V
Forward continuous Current	$I_F$	200	mA
Repetitive peak Forward Current	$I_{FRM}$	300	mA
Forward Surge Current @ $t<1.0\text{s}$	$I_{FSM}$	600	mA
Power Dissipation	$P_d$	200	mW
Thermal resistance, junction to ambient air	$R_{\theta JA}$	635	$^\circ\text{C/W}$
Junction temperature	$T_j$	150	$^\circ\text{C}$
Storage temperature range	$T_{stg}$	-65-150	$^\circ\text{C}$

## ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R=10\mu A$	30			V
Forward voltage	$V_{F1}$	$I_F=0.1mA$		0.22	0.24	V
	$V_{F2}$	$I_F=1.0mA$		0.29	0.32	V
	$V_{F3}$	$I_F=10mA$		0.35	0.40	V
	$V_{F4}$	$I_F=30mA$		0.41	0.5	V
	$V_{F5}$	$I_F=100mA$		0.52	0.8	V
Reverse leakage current	$I_R$	$V_R=25V$		0.5	2.0	$\mu A$
Reverse recovery time	$t_{rr}$	$I_F=10mA, I_R=1.0mA$			5.0	ns
Total capacitance	$C_T$	$V_R=1.0V, f=1.0MHz$		7.6	10	pF

## TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

