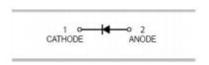




FEATURES

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





APPLICATIONS SOD-323

Schottky barrier detector and switching diodes

ORDERING INFORMATION

Type No.	Marking	Package Code
BAT54H	JV	SOD-323

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Parameter	Symbol	Limits	Unit
DC reverse voltage	V _R	30	V
Forward continuous Current	IF	200	mA
Repetitive peak Forward Current	I _{FRM}	300	mA
Forward Surge Current @t<1.0s	I _{FSM}	600	mA
Power Dissipation	Pd	200	mW
Thermal resistance,junction to ambient air	RejA	635	°C/W
Junction temperature	Tj	150	°C
Storage temperature range	T _{stg}	-55 to +150	$^{\circ}$

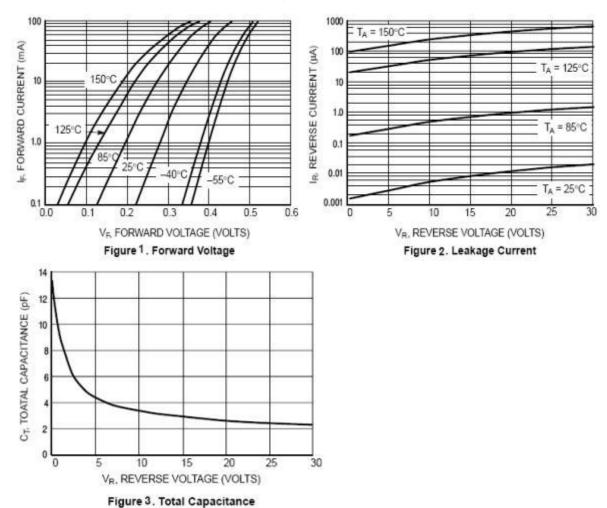




ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Reverse Breakdown Voltage	V _{(BR)R}	I _R =10μA	30			V
Forward voltage	V _F	I _F =0.1mA		0.22	0.24	V
		I _F =1.0mA		0.29	0.32	V
		I _F =10mA		0.35	0.40	V
		I _F =30mA		0.41	0.5	V
		I _F =100mA		0.52	0.8	V
Reverse leakage current	I _R	V _R =25V		0.5	2.0	μA
Reverse recovery time	t _{rr}	I _F =10mA,I _R =1.0mA			5.0	ns
Total capacitance	Ст	V _R =1.0V,f=1.0MHz 7.6 10		10	pF	

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified



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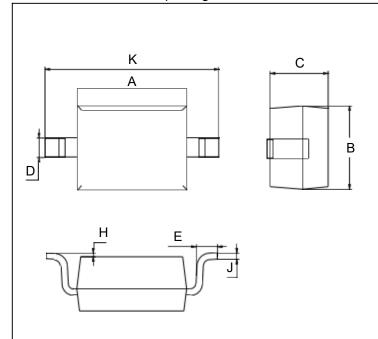




PACKAGE OUTLINE

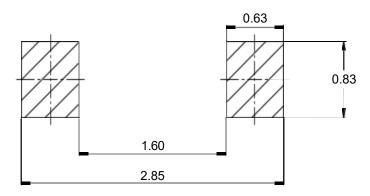
Plastic surface mounted package

SOD-323



SOD-323		
Dim	Min	Max
Α	1.60	1.80
В	1.20	1.40
С	0.9 Max	
D	0.30 Typical	
E	0.22	0.42
Н	0.02	0.1
J	0.1 Typical	
K	2.55	2.75
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit: mm

PACKAGE INFORMATION

Device	Package	Shipping
BAT54H	SOD-323	3000/Tape&Reel





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