

Schottky Barrier Diode

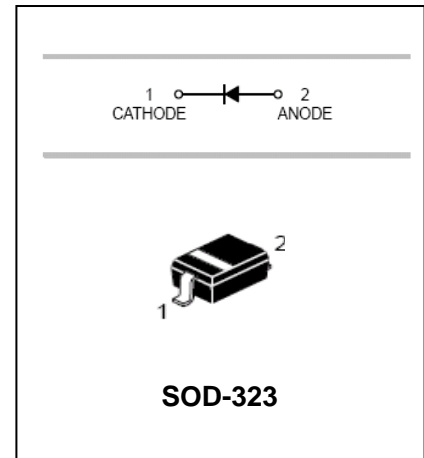
BAT46WS

FEATURES

- For general purpose applications.
- This diodes features very low turn-on Voltage and fast switching.
- This device is protected by a PN junction guard Ring against excessive voltage, such as electrostatic discharges.



Lead-free



ORDERING INFORMATION

Type No.	Marking	Package Code
BAT46WS	L6	SOD-323

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Parameter	Symbol	Limits	Unit
Repetitive Peak reverse voltage	V_{RRM}	100	V
Forward continuous Current	I_F	150	mA
Repetitive peak Forward Current	I_{FRM}	350	mA
Forward Surge Current	I_{FSM}	750	mA
Power Dissipation	P_d	200	mW
Thermal resistance, junction to ambient air	$R_{\theta JA}$	300	°C/W
Junction temperature	T_j	125	°C
Storage temperature range	T_{stg}	-55 to +125	°C



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ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R=100\mu A$	100			V
Forward voltage	V_F	$I_F=0.1mA$			0.25	V
	V_F	$I_F=10mA$			0.45	V
	V_F	$I_F=250mA$			1.00	V
Reverse current	I_R	$V_R=1.5V$			0.5	μA
		$V_R=1.5V, T_j=60^\circ C$			5.0	μA
		$V_R=10V$			0.8	μA
		$V_R=10V, T_j=60^\circ C$			7.5	μA
		$V_R=50V$			2.0	μA
		$V_R=50V, T_j=60^\circ C$			15	μA
		$V_R=75V$			5.0	μA
		$V_R=75V, T_j=60^\circ C$			20	μA
Capacitance	C_{tot}	$V_R=0V, f=1MHz$			10	pF
		$V_R=1V, f=1MHz$			6	



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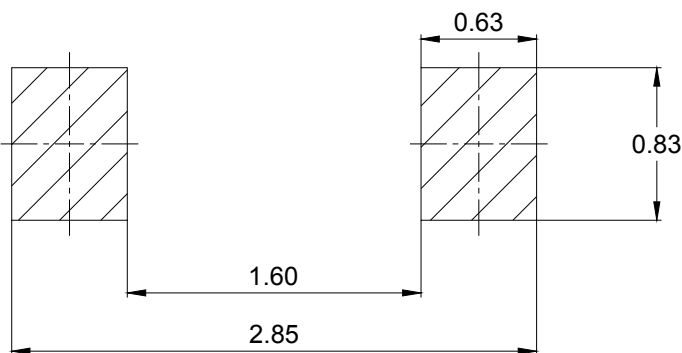
PACKAGE OUTLINE

Plastic surface mounted package

SOD-323

SOD-323		
Dim	Min	Max
A	1.60	1.80
B	1.20	1.40
C	0.9 Typical	
D	0.30 Typical	
E	0.22	0.42
H	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
BAT46WS	SOD-323	3000/Tape&Reel