

## SURFACE MOUNT SCHOTTKY BARRIER DIODE

**BAT54WS**

**SOD-323  
PLASTIC PACKAGE**



### Marking

BAT54WS= L4 with cathode band

### ABSOLUTE MAXIMUM RATINGS

Ratings at  $T_a = 25^\circ\text{C}$  Ambient Temperature unless otherwise specified, For Capacitive Load, Derate Current by 20%

DESCRIPTION	SYMBOL	VALUE	UNIT
Non Repetitive Peak Reverse Voltage	$V_{RRM}$	30	V
Maximum Average Forward Current @ $T_a = 75^\circ\text{C}$	$I_O$	0.2	A
Peak Forward Surge Current, 1.0s	$I_{FSM}$	0.6	A
Operating Junction and Storage Temperature Range	$T_j, T_{stg}$	- 55 to + 125	$^\circ\text{C}$

### THERMAL RESISTANCE

Junction to Ambient in free air	$R_{th(j-a)}$	500	$^\circ\text{C/W}$
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### ELECTRICAL CHARACTERISTICS

Ratings at  $T_a = 25^\circ\text{C}$  Ambient Temperature unless otherwise specified, For Capacitive Load, Derate Above 20%

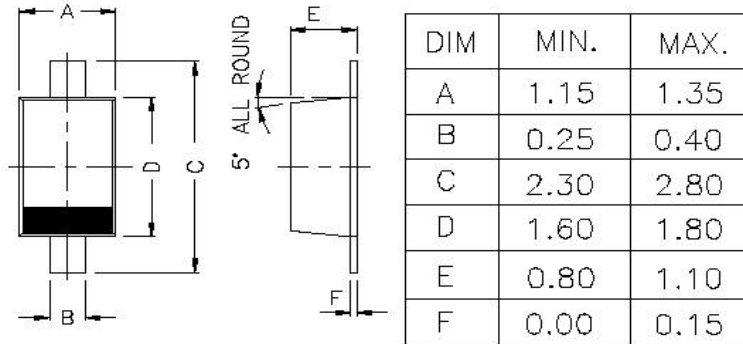
DESCRIPTION	SYMBOL	TEST CONDITION	MIN	MAX	UNIT
Forward Voltage	$V_F$	$I_F = 1\text{mA}$		0.32	V
		$I_F = 100\text{mA}$		1.0	V
Reverse Current	$I_R$	$V_R = 25\text{V}$		2.0	$\mu\text{A}$

### DYNAMIC CHARACTERISTICS

Junction Capacitance	$C_j$	$V_R = 1\text{V}, f = 1\text{MHz}$		10	pF
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BAT54WSRev030505E

PACKAGE SOD-323 FL



All dimensions are in mm

CATHODE IS MARKED BY BAND

**Component Disposal Instructions**

1. CDIL Semiconductor Devices are RoHS compliant, customers are requested to please dispose as per prevailing Environmental Legislation of their Country.
2. In Europe, please dispose as per EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

BAT54WSRev030505E

**Disclaimer**

The product information and the selection guides facilitate selection of the CDIL's Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished in the Data Sheet and on the CDIL Web Site/CD are believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

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