

RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

### FEATURES

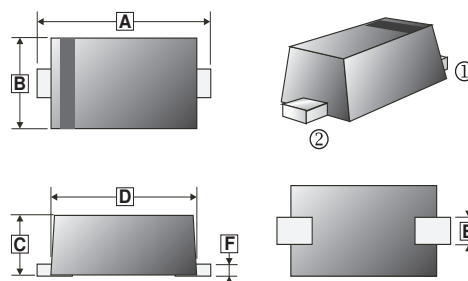
- Surface Device Type Mounting
- Matte Tin(Sn) Lead Finish
- Low Forward Voltage Drop
- Band Indicates Cathode

### MARKING

B6

L9

### SOD-323L



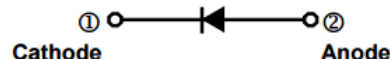
### PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-323L	3K	7 inch

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.30	2.80	D	1.60	2.10
B	1.05	1.60	E	0.25	0.70
C	0.60	1.08	F	0.05	0.25

### ORDER INFORMATION

Part Number	Type
BAT54LWS-C	Lead (Pb)-free and Halogen-free



### ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub>=25°C unless otherwise noted)

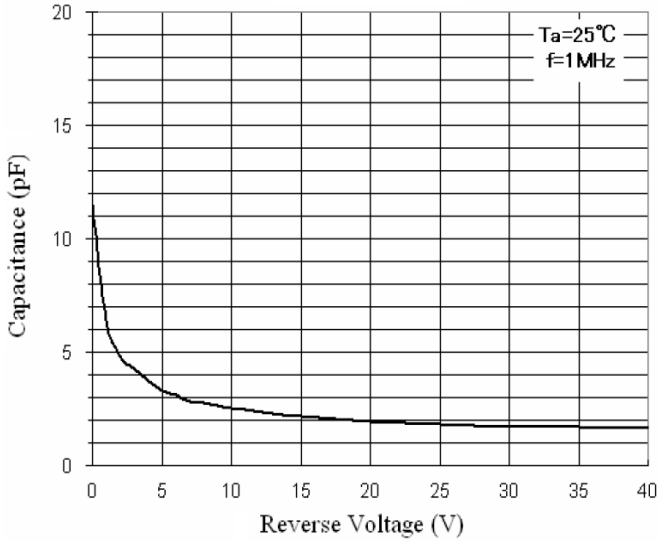
Parameter	Symbol	Ratings	Unit
Maximum DC Blocking Voltage	V <sub>R</sub>	30	V
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	30	
Average Forward Rectified Current	I <sub>F</sub>	200	mA
Peak Forward Surge Current	I <sub>FSM</sub>	4	A
Power Dissipation	P <sub>D</sub>	200	mW
Junction & Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	125, -65~125	°C

### ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise noted)

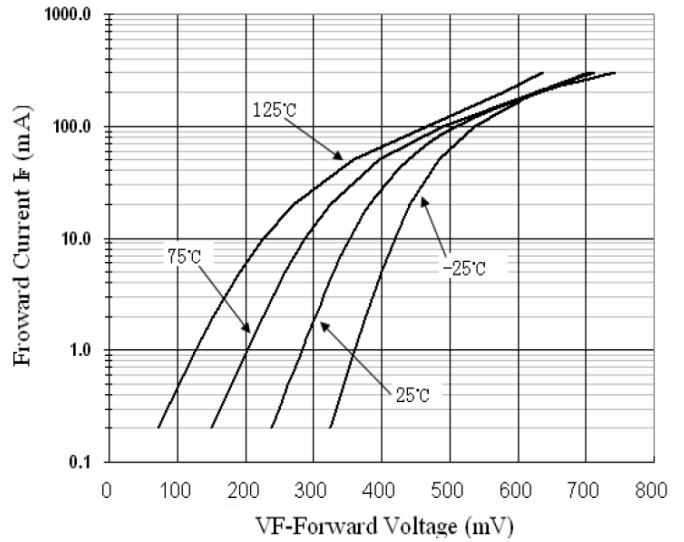
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Reverse Breakdown Voltage	V <sub>BR</sub>	30	-	-	V	I <sub>F</sub> =10μA
Forward Voltage	V <sub>F</sub>	-	-	0.24	V	I <sub>F</sub> =0.1mA
		-	-	0.32		I <sub>F</sub> =1mA
		-	-	0.4		I <sub>F</sub> =10mA
		-	-	0.5		I <sub>F</sub> =30mA
		-	-	0.8		I <sub>F</sub> =100mA
Reverse Leakage Current	I <sub>R</sub>	-	-	2	nA	V <sub>R</sub> =25V
Capacitance	C	-	10	-	pF	V <sub>R</sub> =1V, f=1MHz
Reverse Recovery Time	T <sub>RR</sub>	-	5	-	nS	I <sub>F</sub> =I <sub>R</sub> =10mA, I <sub>RR</sub> =1mA, R <sub>L</sub> =100Ω

**RATINGS AND CHARACTERISTIC CURVES**

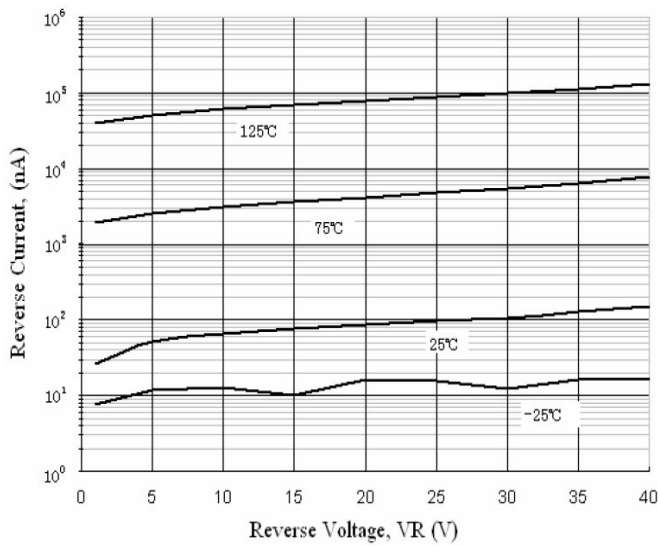
**Total Capacitance**



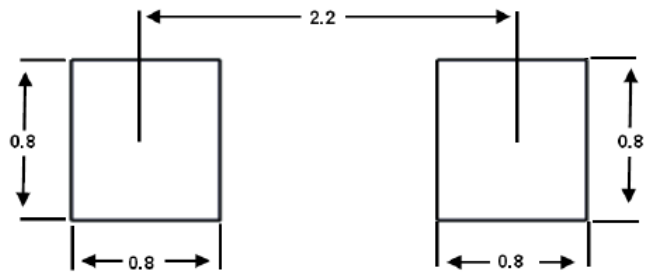
**Forward Voltage vs Ambient Temperature**



**Reverse Current vs Reverse Voltage**



**Mounting Pad Layout**



\*Dimensions in millimeters