

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

### FEATURES

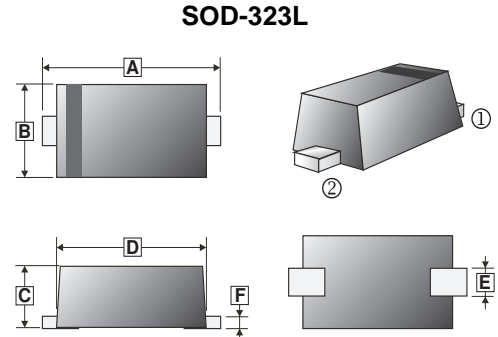
- Surface Device Type Mounting
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode

### MARKING

B2

### PACKAGE INFORMATION

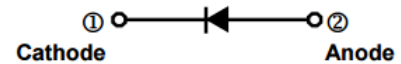
Package	MPQ	Leader Size
SOD-323L	3K	7 inch



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.30	2.70	D	1.60	1.80
B	1.15	1.35	E	0.25	0.40
C	0.80	1.00	F	0.05	0.25

### ORDER INFORMATION

Part Number	Type
BAT43LWS-C	Lead (Pb)-free and Halogen-free



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

Parameter	Symbol	Ratings	Unit
Repetitive Peak Reverse Voltage	V <sub>RM</sub>	30	V
Average Rectified Output Current	I <sub>o</sub>	200	mA
Peak Forward Surge Current @t=10ms Single Half Sine-Wave	I <sub>FSM</sub>	4	A
Power Dissipation	P <sub>D</sub>	200	mW
Junction and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	125, -55~125	°C

Notes:

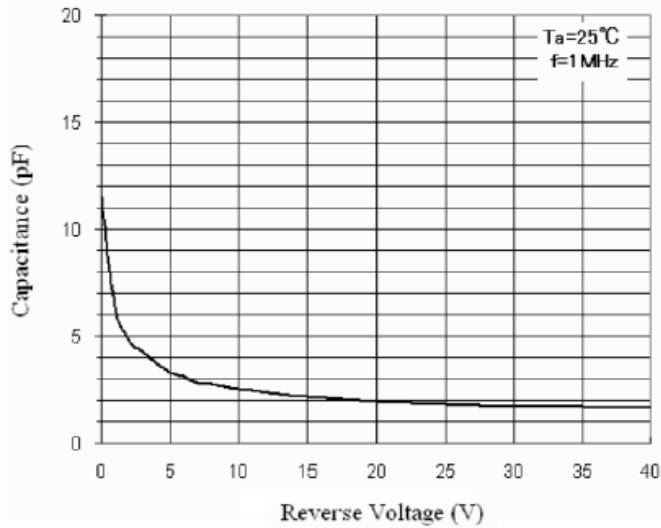
1. Mounted on 1inch<sup>2</sup> FR4 board with 1OZ copper.
2. These ratings are limiting values above which the serviceability of the diode may be impaired.

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

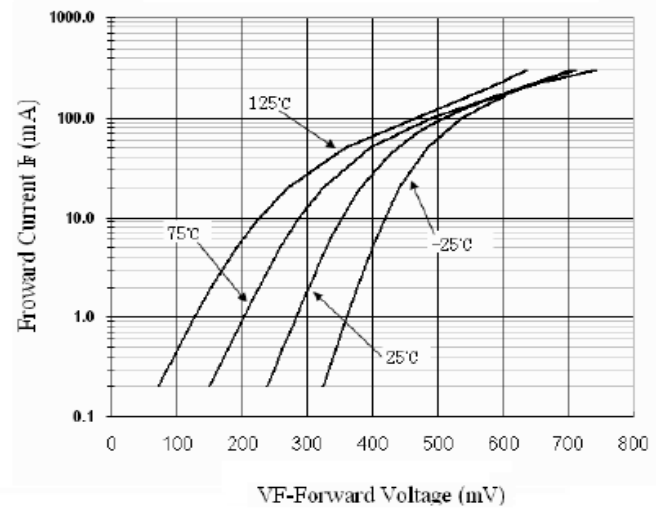
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Reverse Breakdown Voltage	V <sub>BR</sub>	30	-	-	V	I <sub>F</sub> =100uA
Reverse Leakage Current	I <sub>R</sub>	-	-	500	nA	V <sub>R</sub> =25V
Forward Voltage	V <sub>F</sub>	-	-	0.33	V	I <sub>F</sub> =2mA
		-	-	0.45		I <sub>F</sub> =15mA
		-	-	1		I <sub>F</sub> =200mA
Diode Capacitance	C <sub>d</sub>	-	7	-	pF	V <sub>R</sub> =1V, f=1MHz
Reverse Recovery Time	T <sub>RR</sub>	-	5	-	nS	I <sub>F</sub> =10mA, 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**

