

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

FEATURES

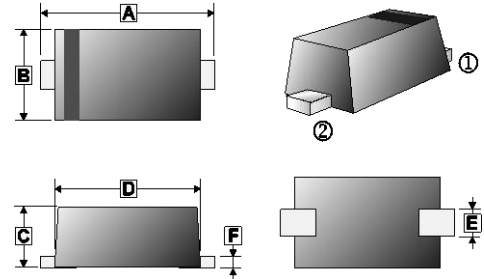
- Surface Device Type Mounting
- Matte Tin(Sn) Lead Finish
- Low Forward Voltage Drop
- Band Indicates Cathode

MARKING

B6

L9

SOD-323L



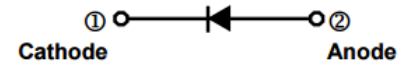
PACKAGE INFORMATION

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_A=25°C unless otherwise noted)

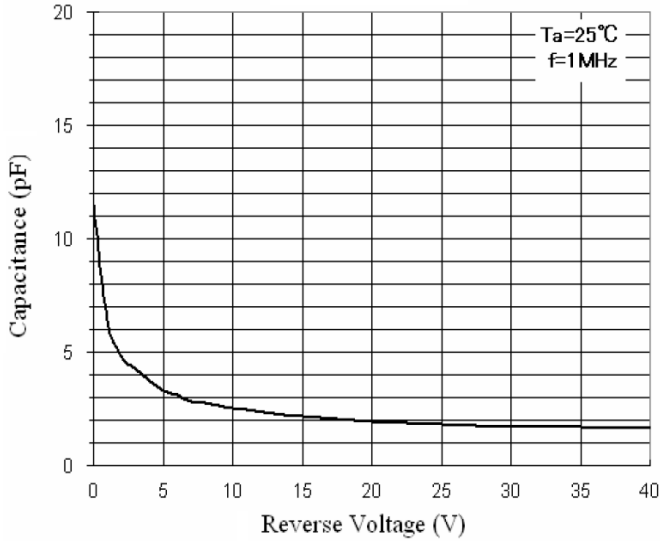
Parameter	Symbol	Ratings	Unit
Maximum DC Blocking Voltage	V _R	30	V
Repetitive Peak Reverse Voltage	V _{RRM}	30	
Average Forward Rectified Current	I _F	200	mA
Peak Forward Surge Current	I _{FSM}	4	A
Power Dissipation	P _D	200	mW
Junction & Storage Temperature Range	T _J , T _{STG}	125, -65~125	°C

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

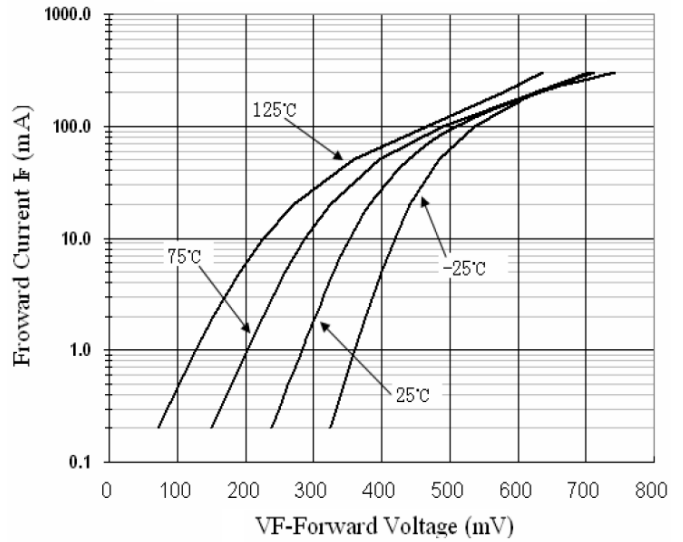
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Reverse Breakdown Voltage	V _{BR}	30	-	-	V	I _F =10μA
Forward Voltage	V _F	-	-	0.24	V	I _F =0.1mA
		-	-	0.32		I _F =1mA
		-	-	0.4		I _F =10mA
		-	-	0.5		I _F =30mA
		-	-	0.8		I _F =100mA
Reverse Leakage Current	I _R	-	-	2	μA	V _R =25V
Capacitance	C	-	10	-	pF	V _R =1V, f=1MHz
Reverse Recovery Time	T _{RR}	-	5	-	nS	I _F =I _R =10mA, I _{RR} =1mA, R _L =100Ω

RATINGS AND CHARACTERISTIC CURVES

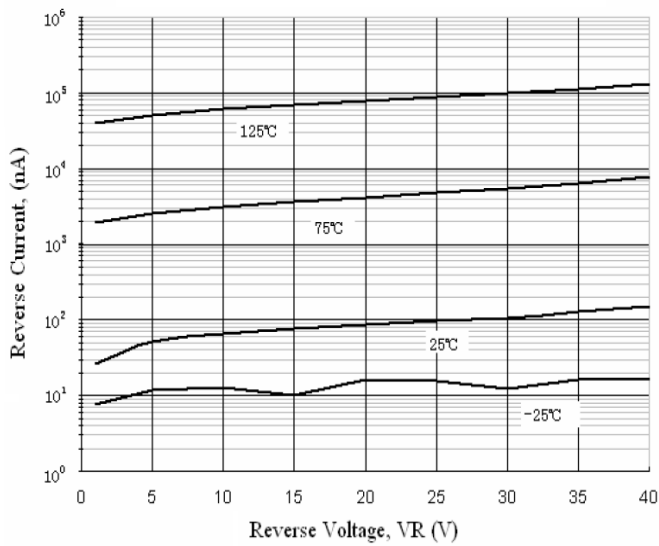
Total Capacitance



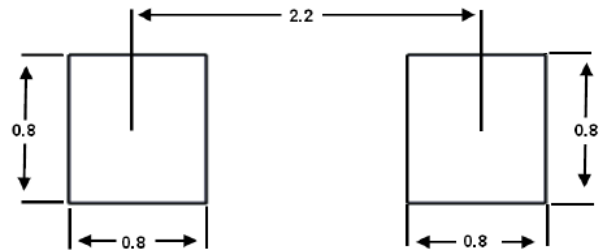
Forward Voltage vs Ambient Temperature



Reverse Current vs Reverse Voltage



Mounting Pad Layout



*Dimensions in millimeters