

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

FEATURES

- Low Forward Voltage
- Matte Tin (Sn) Lead Finish
- Cathode Band / Device marking

SOD-323



MARKING

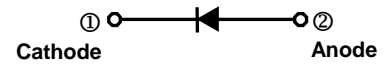
L9

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-323	3K	7 inch

ORDER INFORMATION

Part Number	Type
BAT54WX-C	Lead (Pb)-free and Halogen-free



ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise specified)

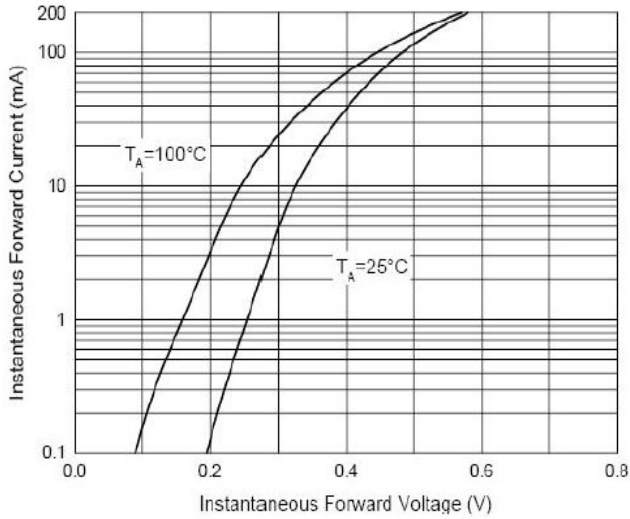
Parameter	Symbol	Ratings	Unit
Reverse Voltage	V _R	30	V
Continuous Forward Current	I _O	100	mA
Forward Continuous Current	I _F	200	
Repetitive Peak Forward Current	I _{FRM}	300	
Non-Repetitive Peak Forward Surge Current @8.3ms single half sine-wave	I _{FSM}	600	
Power Dissipation	P _D	200	mW
Operating Junction & Storage Temperature Range	T _J , T _{STG}	125, -65~125	°C

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

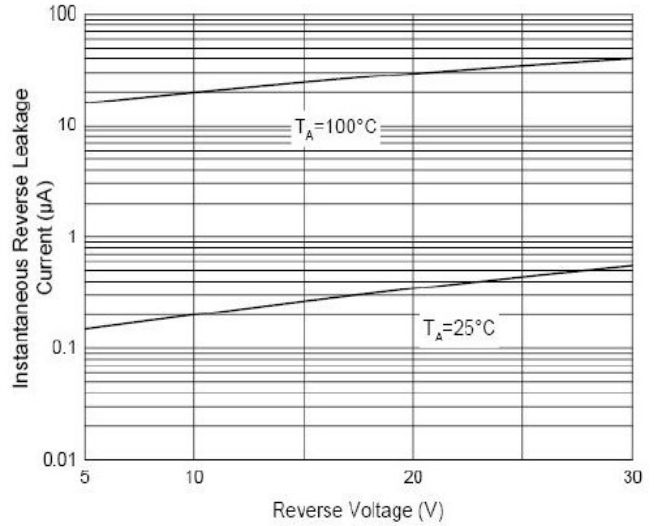
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Reverse Breakdown Voltage	V _{BR}	30	-	-	V	I _R =100µA
Forward Voltage	V _F	-	-	0.24	V	I _F =0.1mA
		-	-	0.32		I _F =1mA
		-	-	0.4		I _F =10mA
		-	-	0.5		I _F =30mA
		-	-	1		I _F =100mA
Peak Reverse Current	I _R	-	-	2	µA	V _R =25V
Diode Capacitance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

CHARACTERISTIC CURVES

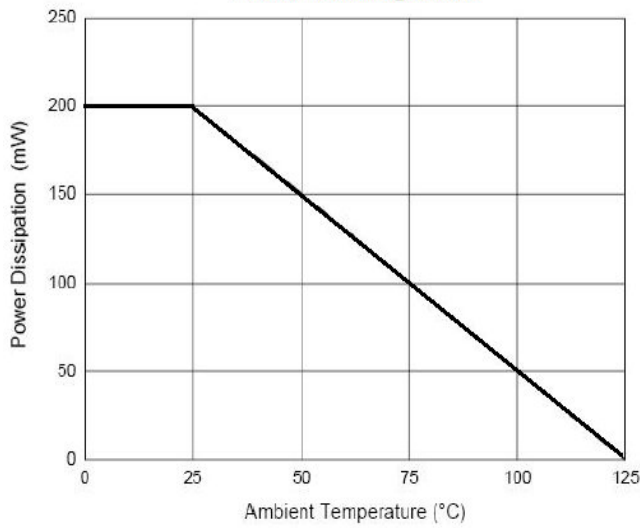
Typical Instantaneous Forward Characteristics



Typical Reverse Leakage Characteristics

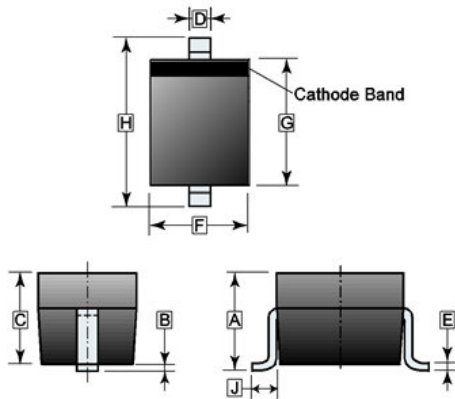


Power Derating Curve



PACKAGE OUTLINE DIMENSIONS

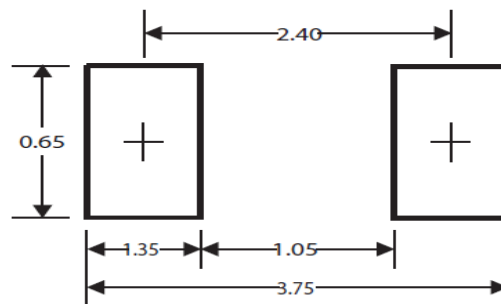
SOD-323



REF.	Millimeter	
	Min.	Max.
A	1.05 REF.	
B	0.07 REF.	
C	0.80	1.10
D	0.25	0.40
E	0.05	0.25
F	1.10	1.50
G	1.50	1.95
H	2.30	2.80
J	0.475 REF.	

MOUNTING PAD LAYOUT

SOD-323



*Dimensions in millimeters