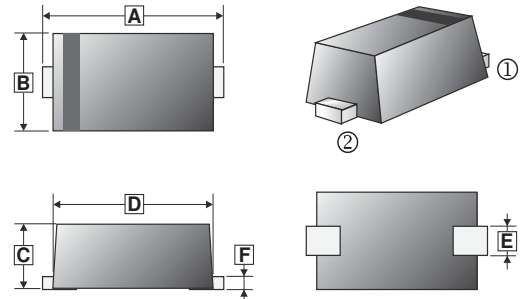


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Low Forward Voltage Drop
- Flat Lead SOD-523 Small Outline Plastic Package
- Surface Device Type Mounting
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode

SOD-523



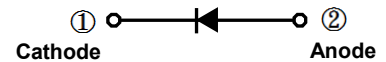
MARKING:

6B

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-523	3K	7 inch

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.50	1.70	D	1.10	1.30
B	0.70	0.90	E	0.25	0.35
C	0.50	0.77	F	0.07	0.20



ORDER INFORMATION

Part Number	Type
BAT42X-C	Lead (Pb)-free and Halogen-free

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

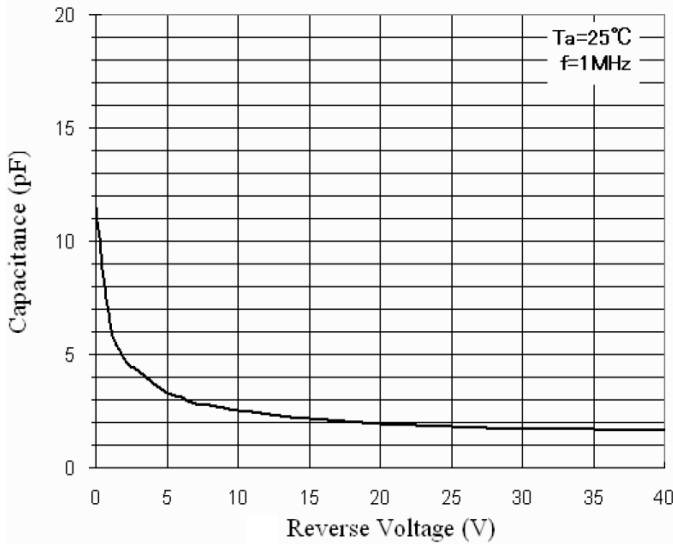
Parameter	Symbol	Rating	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	30	V
Maximum DC Blocking Voltage	V _R	30	V
Average Forward Rectified Current	I _F	200	mA
Peak Forward Surge Current	I _{FSM}	4	A
Power Dissipation	P _D	200	mW
Operating Junction and Storage Temperature Range	T _J , T _{STG}	125, -65~125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

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

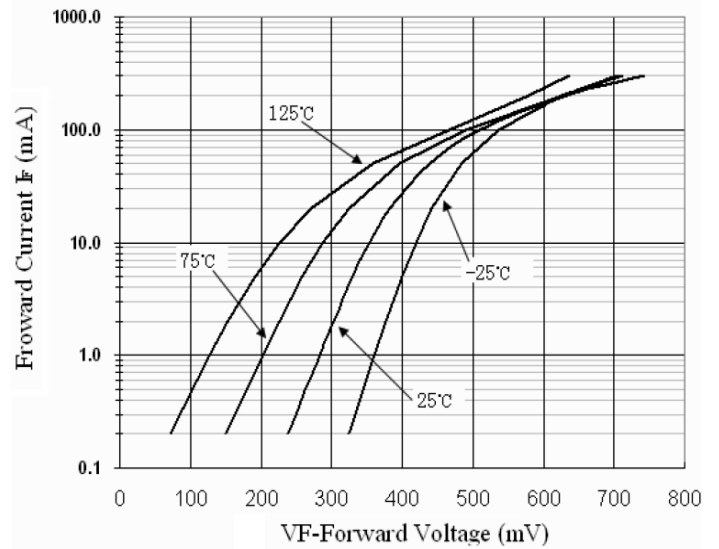
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Forward voltage	V _F	0.26	-	0.4	V	I _F =10mA
		0.26	-	0.65		I _F =50mA
		0.26	-	1		I _F =200mA
Reverse Leakage Current	I _R	-	-	500	nA	V _R =25V
Capacitance	C	-	7	-	pF	V _R =1V, f=1MHz
Reverse Recovery Time	T _{RR}	-	5	-	nS	I _F =I _R =10mA, I _{RR} =1mA, R _L =100Ω

RATINGS AND CHARACTERISTIC CURVES

Total Capacitance



Forward Voltage vs Ambient Temperature



Reverse Current vs Reverse Voltage

