

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

FEATURES

- Low Leakage Current Applications
- Medium Speed Switching Times
- Surface Mount Package Ideally Suited for Automatic Insertion

APPLICATIONS

- High Speed Switching Application

MARKING

JV

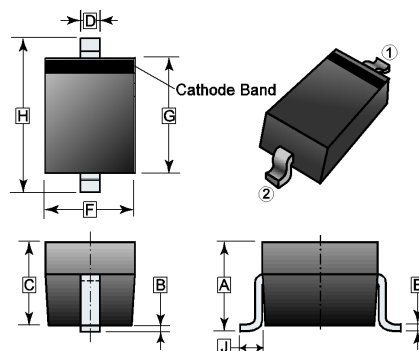
PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-323	3K	7 inch

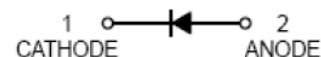
ORDER INFORMATION

Part Number	Type
BAS116WS	Lead (Pb)-free
BAS116WS-C	Lead (Pb)-free and Halogen-free

SOD-323



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.05	REF.	F	1.15	1.45
B	0.20	REF.	G	1.6	1.9
C	0.80	1.00	H	2.30	2.75
D	0.25	0.40	J	0.475 REF.	
E	0.080	0.20			



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

Parameter	Symbol	Ratings	Unit
Peak Repetitive Peak Reverse Voltage	V _{RRM}	85	V
Working Peak Reverse Voltage	V _{RWM}	85	V
DC Blocking Voltage	V _R	85	V
RMS Reverse Voltage	V _{R(RMS)}	60	V
Forward Continuous Current	I _{FM}	215	mA
Repetitive Peak Forward Current	I _{FRM}	500	mA
Non-Repetitive Peak Forward Surge Current	I _{FSM}	t=1μs	4
		t=1ms	1
		t=1s	0.5
Power Dissipation	P _D	200	mW
Thermal Resistance Junction-Ambient Air	R _{θJA}	500	°C/W
Junction, Storage Temperature	T _J , T _{STG}	150, -55~150	°C

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

Parameters	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Reverse Breakdown Voltage	V _{(BR)R}	85	-	-	V	I _R =100μA
Forward Voltage	V _F	-	-	0.9	V	I _F =1mA
		-	-	1		I _F =10mA
		-	-	1.1		I _F =50mA
		-	-	1.25		I _F =150mA
Reverse Leakage Current	I _R	-	-	5	nA	V _R =75V
		-	-	80		V _R =75V, T _J =150°C
Junction Capacitance	C _J	-	2	-	pF	V _R =0, f=1MHz
Reverse Recovery Time	T _{RR}	-	-	3	μS	I _F =I _R =10mA, I _{RR} =0.1xI _R

RATINGS AND CHARACTERISTIC CURVES

