

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

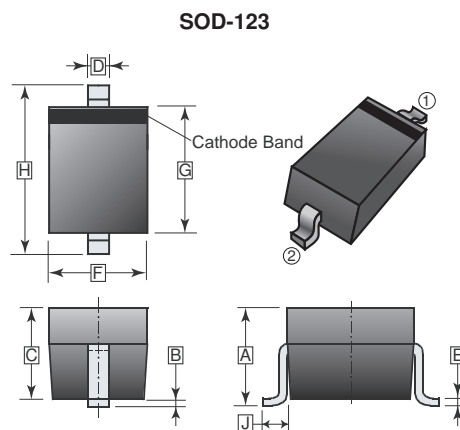
- High Speed Switching Application

MARKING

JV

PACKAGE INFORMATION

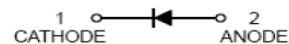
Package	MPQ	Leader Size
SOD-123	3K	7 inch



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	0.94	1.35	F	1.40	1.80
B	0.10	REF.	G	2.54	2.85
C	1.00	1.30	H	3.55	3.86
D	0.30	0.78	J	0.50	REF.
E	0.08	0.25			

ORDER INFORMATION

Part Number	Type
BAS116W	Lead (Pb)-free
BAS116W-C	Lead (Pb)-free and Halogen-free



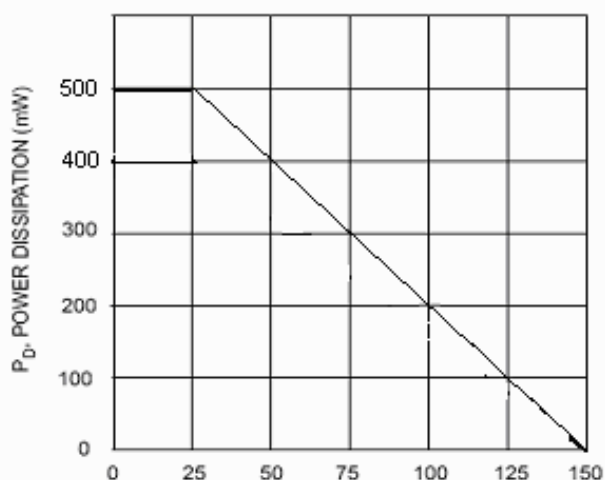
ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise specified)

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	500	mW
Thermal Resistance Junction-Ambient Air	R _{θJA}	500	°C/W
Junction, Storage Temperature	T _J , T _{STG}	150, -55~150	°C

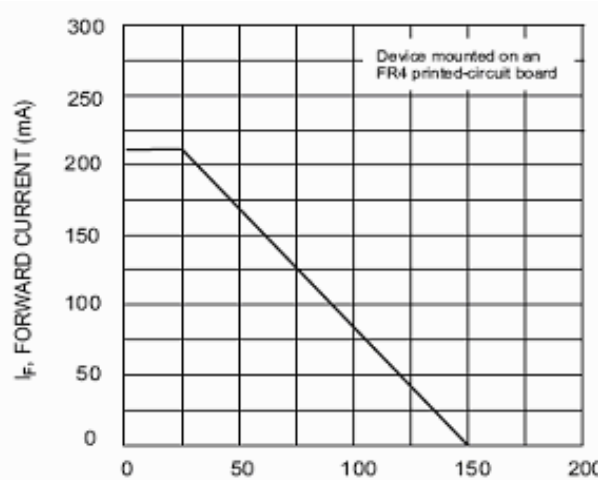
ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise specified)

Parameters	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Reverse Breakdown Voltage	$V_{(BR)R}$	85	-	-	V	$I_R=100\mu\text{A}$
Forward Voltage	V_F	-	-	0.9	V	$I_F=1\text{mA}$
		-	-	1		$I_F=10\text{mA}$
		-	-	1.1		$I_F=50\text{mA}$
		-	-	1.25		$I_F=150\text{mA}$
Reverse Leakage Current	I_R	-	-	5	nA	$V_R=75\text{V}$
		-	-	80		$V_R=75\text{V}, T_J=150^\circ\text{C}$
Junction Capacitance	C_J	-	2	-	pF	$V_R=0, f=1\text{MHz}$
Reverse Recovery Time	T_{RR}	-	-	3	uS	$I_F=I_R=10\text{mA}, I_{RR}=0.1 \times I_R$

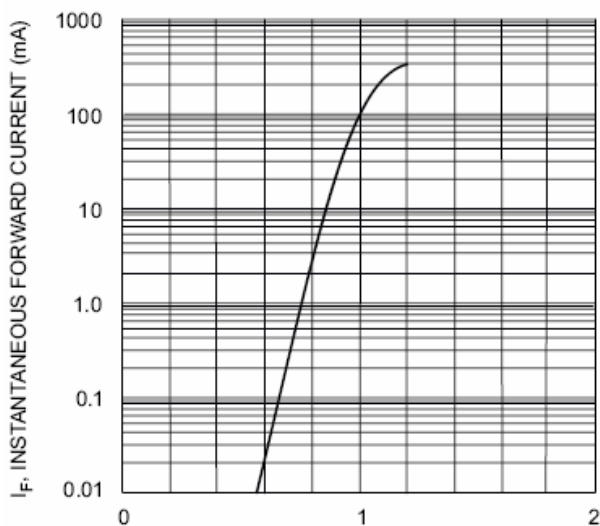
RATINGS AND CHARACTERISTIC CURVES



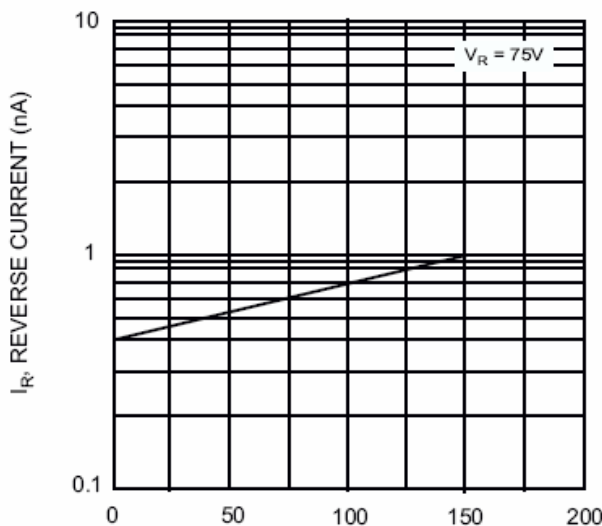
T_A , AMBIENT TEMPERATURE ($^\circ\text{C}$)
Fig. 1 Power Derating Curve



T_A , AMBIENT TEMPERATURE ($^\circ\text{C}$)
Fig. 2 Current Derating Curve



V_F , INSTANTANEOUS FORWARD VOLTAGE (V)
Fig. 3 Typical Forward Characteristics



T_A , AMBIENT TEMPERATURE ($^\circ\text{C}$)
Fig. 4 Typical Reverse Characteristics