

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

FEATURES

- Low Leakage Current Applications
- Medium Speed Switching Times

MARKING

JV

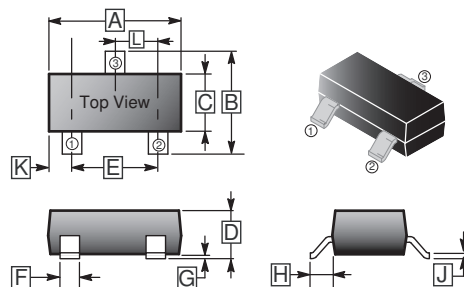
PACKAGE INFORMATION

Package	MPQ	Leader Size
SOT-23	3K	7 inch

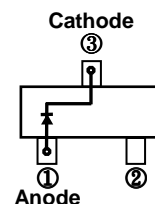
ORDER INFORMATION

Part Number	Type
BAS116	Lead (Pb)-free
BAS116-C	Lead (Pb)-free and Halogen-free

SOT-23



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.70	3.10	G	0	0.18
B	2.10	2.95	H	0.55 REF.	
C	1.20	1.7	J	0.08	0.20
D	0.89	1.3	K	0.6 REF.	
E	1.70	2.3	L	0.95 BSC.	
F	0.30	0.50			



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

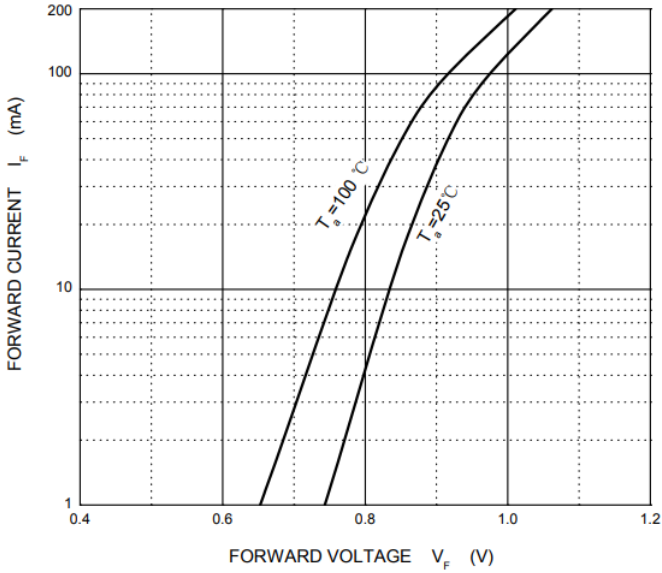
Parameter	Symbol	Ratings	Unit
Peak Repetitive Peak Reverse Voltage	V _{RPM}	75	V
Working Peak Reverse Voltage	V _{RWM}	75	V
DC Blocking Voltage	V _R	75	V
Forward Continuous Current	I _{FM}	200	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	2	A
Total Power Dissipation	P _D	225	mW
Junction, Storage Temperature	T _J , T _{STG}	-55~150	°C

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

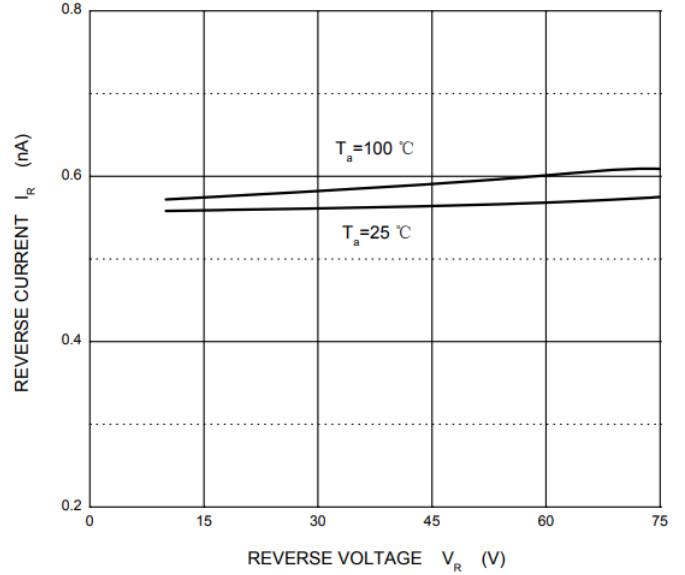
Parameters	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Reverse Breakdown Voltage	V _R	75	-	-	V	I _R =100µA
Forward Voltage	V _{F1}	-	-	0.9	V	I _F =1mA
	V _{F2}	-	-	1		I _F =10mA
	V _{F3}	-	-	1.1		I _F =50mA
	V _{F4}	-	-	1.25		I _F =150mA
Reverse Current	I _R	-	-	5	nA	V _R =75V
Diode Capacitance	C _{TOT}	-	2	-	pF	V _R =0, f=1MHz
Reverse Recovery Time	T _{RR}	-	3	-	µs	I _F =I _R =10mA, I _{RR} =0.1xI _R , R _L =100Ω

RATINGS AND CHARACTERISTIC CURVES

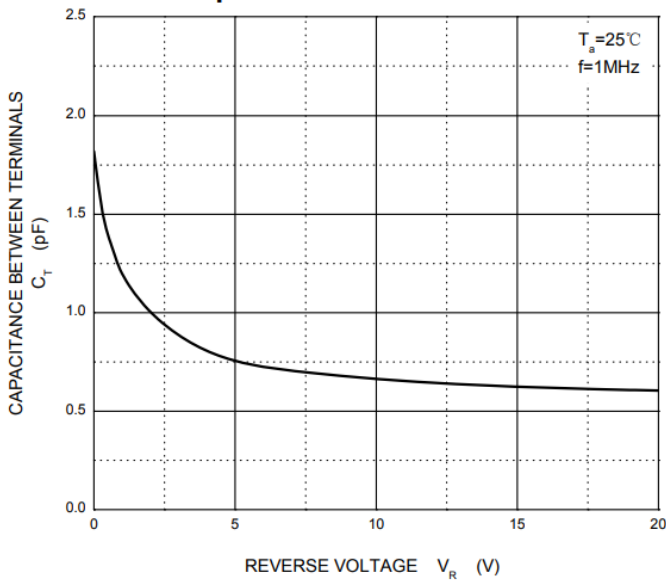
Forward Characteristics



Reverse Characteristics



Capacitance Characteristics



Power Derating Curve

