

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

FEATURES

- For General Purpose Applications
- Very Low Turn-on Voltage and Fast Switching
- Protected by a PN Junction Guard Ring Against Excessive Voltage, Such as Electrostatic Discharges

MARKING

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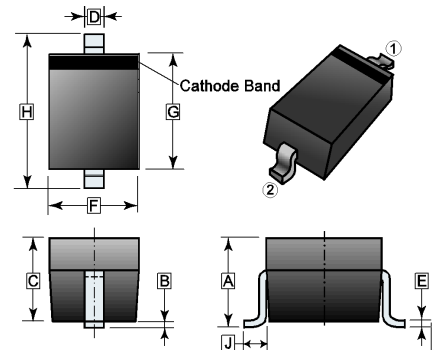
PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-323	3K	7 inch

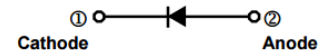
ORDER INFORMATION

Part Number	Type
BAT46WS-C	Lead (Pb)-free and Halogen-free

SOD-323



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.05 REF.		F	1.10	1.50
B	0.20 REF.		G	1.50	1.95
C	0.80	1.10	H	2.30	2.75
D	0.25	0.40	J	0.475 REF.	
E	0.05	0.25			



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

Parameter	Symbol	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	100	V
Forward Continuous Current	I _F	150	mA
Repetitive Peak Forward Current	I _{FRM}	350	mA
Forward Surge Current	I _{FSM}	750	mA
Power Dissipation	P _D	200	mW
Thermal Resistance, Junction-Ambient	R _{θJA}	500	°C/W
Junction & Storage Temperature Range	T _J , T _{STG}	125, -55~125	°C

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Reverse Breakdown Voltage	V _{BR}	100	-	-	V	I _R =100uA
Forward Voltage	V _F	-	-	0.25	V	I _F =0.1mA
		-	-	0.45		I _F =10mA
		-	-	1		I _F =250mA
Reverse Leakage Current	I _R	-	-	0.5	uA	V _R =1.5V
		-	-	5		V _R =1.5V, T _J =60°C
		-	-	0.8		V _R =10V
		-	-	7.5		V _R =10V, T _J =60°C
		-	-	2		V _R =50V
		-	-	15		V _R =50V, T _J =60°C
		-	-	5		V _R =75V
		-	-	20		V _R =75V, T _J =60°C
Total Capacitance	C _{tot}	-	6	-	pF	V _R =1V, f=1MHz
		-	10	-		V _R =0V, f=1MHz

RATINGS AND CHARACTERISTIC CURVES

Fig. 1 Typical Forward Characteristics

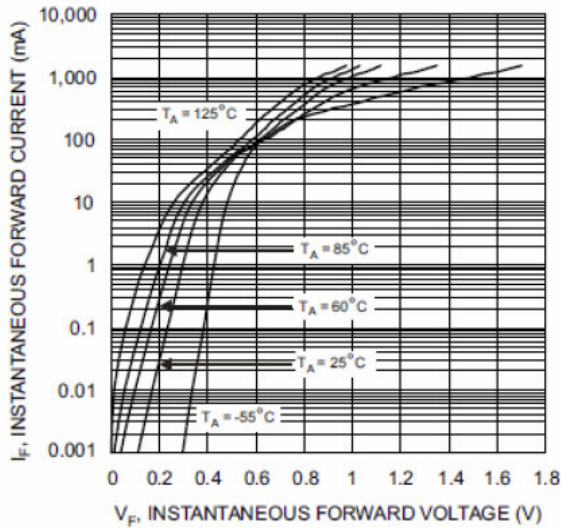


Fig. 2 Typical Reverse Characteristics

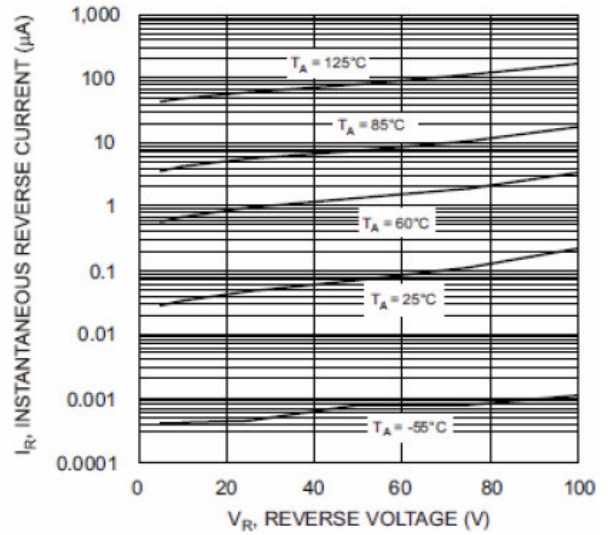


Fig. 3 Typical Total Capacitance

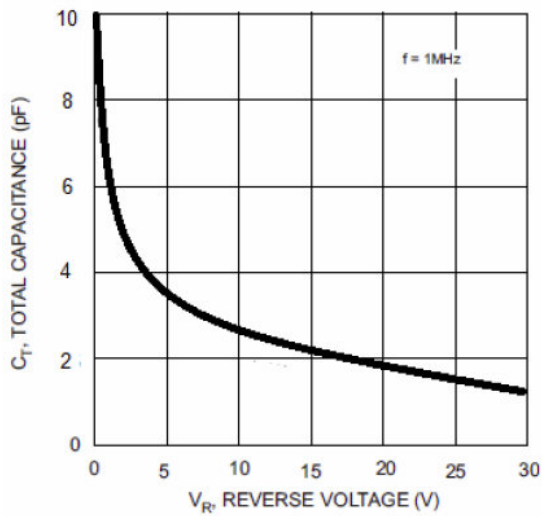


Fig. 4 Forward Current Derating

