

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

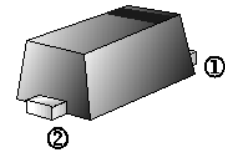
FEATURES

- Low Forward Voltage Drop
- High Breakdown Voltage
- Guard Ring Protected
- Low Capacitance

SOD-523

MECHANICAL DATA

- Case: SOD-523, Molded Plastic
- Terminals: Solderable per MIL-STD-202, Method 208

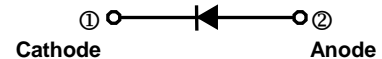


MARKING

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PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-523	3K	7 inch



ORDER INFORMATION

Part Number	Type
BAS70X-C	Lead (Pb)-free and Halogen-free

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

Parameter	Symbol	Ratings	Unit
Non-Repetitive Peak Reverse Voltage	V _{RRM}	70	V
Working Peak Reverse Voltage	V _{RWM}	70	
DC Blocking Voltage	V _R	70	
Forward Current	I _F	70	mA
Non-Repetitive Peak Forward Current @t=1μs	I _{FSM}	100	mA
Power Dissipation	P _D	150	mW
Thermal Resistance Junction-Ambient	R _{θJA}	667	°C/W
Operating & Storage Temperature Range	T _J , T _{STG}	125, -55~150	°C

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Forward Voltage	V _F	-	-	0.41	V	I _F =1mA
		-	-	1		I _F =15mA
Reverse Current	I _R	-	-	100	nA	V _R =50V
Capacitance Between Terminals	C _T	-	2	-	pF	V _R =0V, f=1MHz
Revers Recovery Time	T _{RR}	-	5	-	nS	I _F =I _R =10mA, R _L =100Ω

RATINGS AND CHARACTERISTIC CURVES

FIG 1. TYPICAL REVERSE CHARACTERISTIC

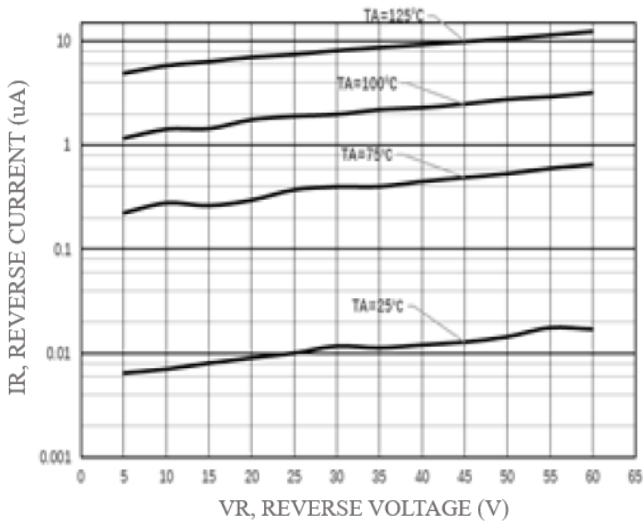


FIG 2. TYPICAL FORWARD CHARACTERISTIC

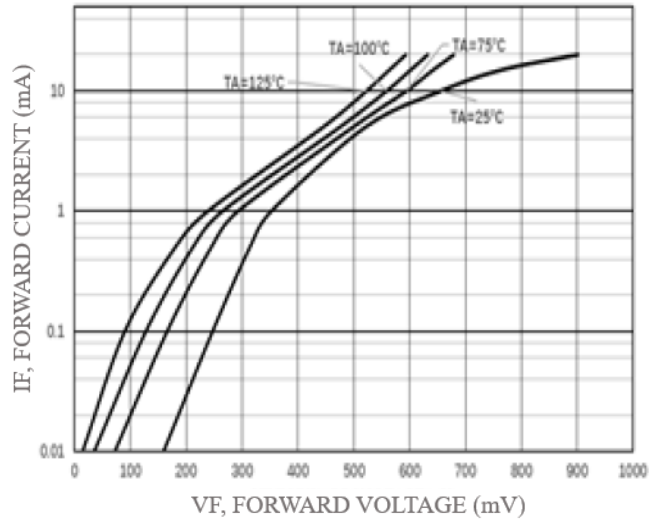


FIG 3. CAPACITANCE VS REVERSE VOLTAGE

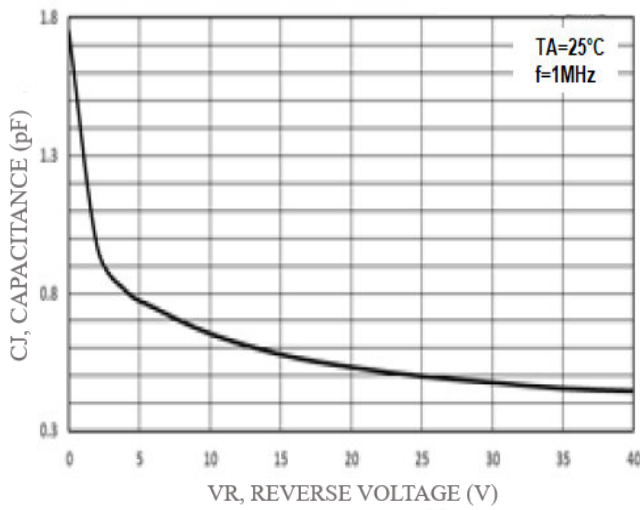
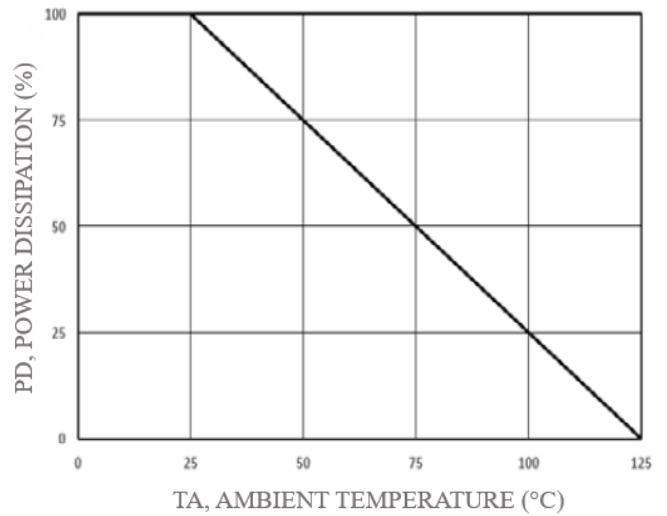
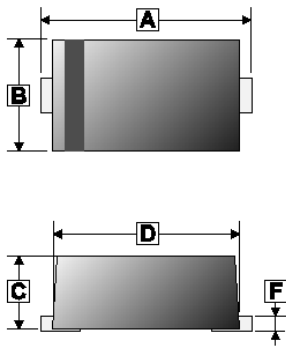


FIG 4. DERATING CURVE (PD-TA)



PACKAGE OUTLINE DIMENSIONS

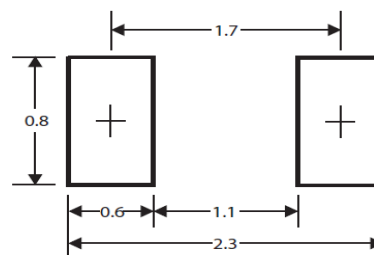
SOD-523



REF.	Millimeter	
	Min.	Max.
A	1.50	1.70
B	0.70	0.90
C	0.50	0.77
D	1.10	1.30
E	0.25	0.40
F	0.05	0.20

MOUNTING PAD LAYOUT

SOD-523



*Dimensions in millimeters