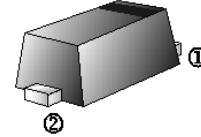


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Fast Switching Devices
- High Conductance
- For General Purpose Switching Applications
- Surface Mount Package Ideally Suited for Automatic Insertion

SOD-523



MARKING

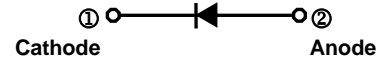
A6

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-523	8K	7 inch

ORDER INFORMATION

Part Number	Type
BAS16S-C	Lead (Pb)-free and Halogen-free



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

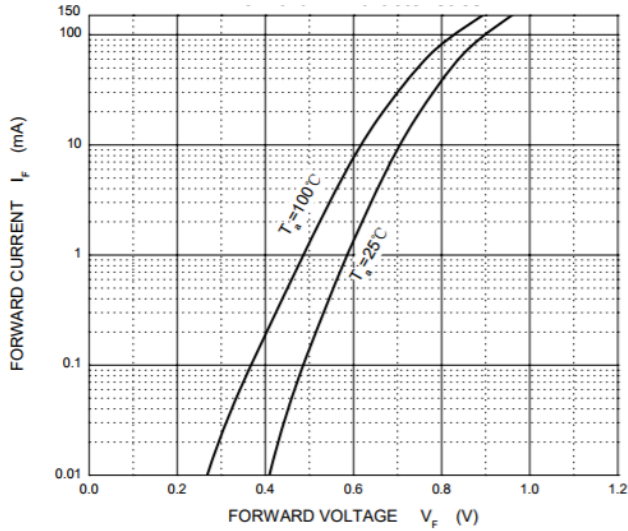
Parameter	Symbol	Ratings	Unit
DC Reverse Voltage	V _R	75	V
Forward Continuous Current	I _F	200	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	500	
Power Dissipation	P _D	150	mW
Operating Junction & Storage Temperature Range	T _J , T _{STG}	150, -55~150	°C

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

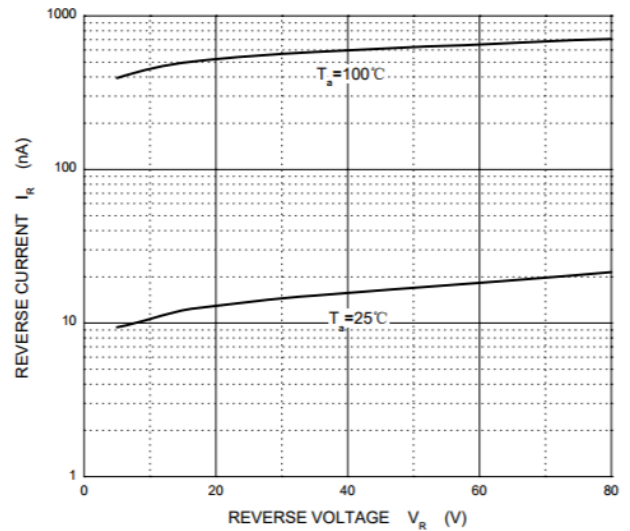
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Reverse Voltage	V _R	75	-	-	V	I _R =100μA
Forward Voltage	V _F	-	-	0.715	V	I _F =1mA
		-	-	0.855		I _F =10mA
		-	-	1		I _F =50mA
		-	-	1.25		I _F =150mA
Reverse Current	I _R	-	-	1	μA	V _R =75V
Diode Capacitance	C _D	-	2	-	pF	V _R =0, f=1MHz
Reverse Recovery Time	t _{rr}	-	6	-	nS	I _F =I _R =10mA, V _R =0 R _L =50Ω

CHARACTERISTIC CURVES

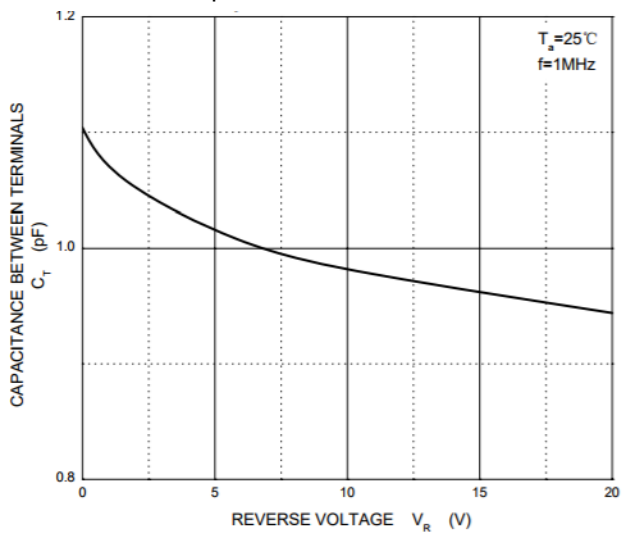
Forward Characteristics



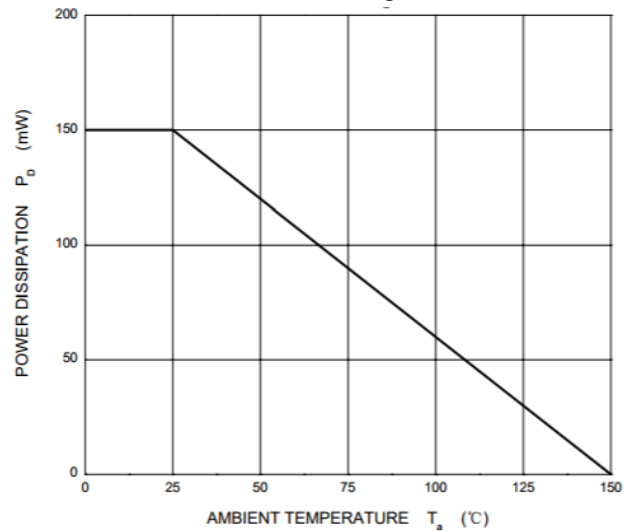
Reverse Characteristics



Capacitance Characteristics

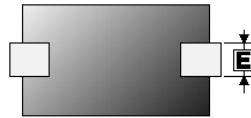
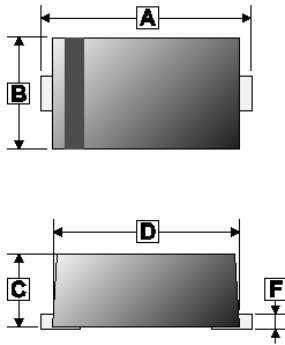


Power Derating Curve



PACKAGE OUTLINE DIMENSIONS

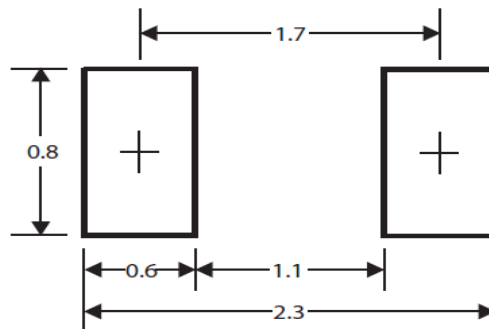
SOD-523



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