



SOD523



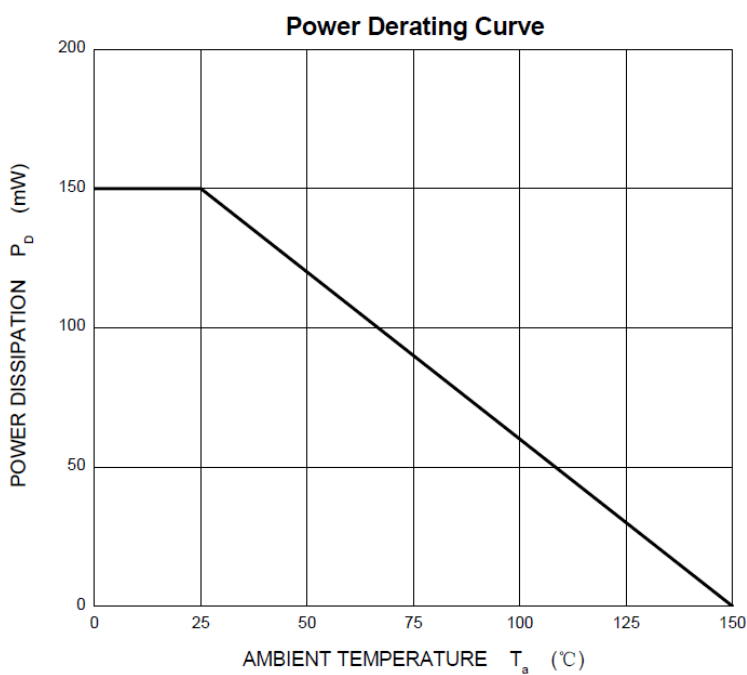
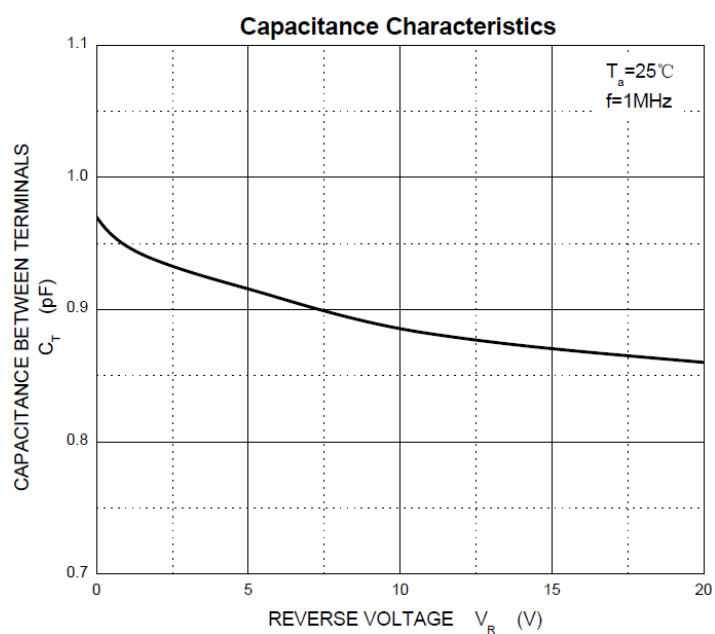
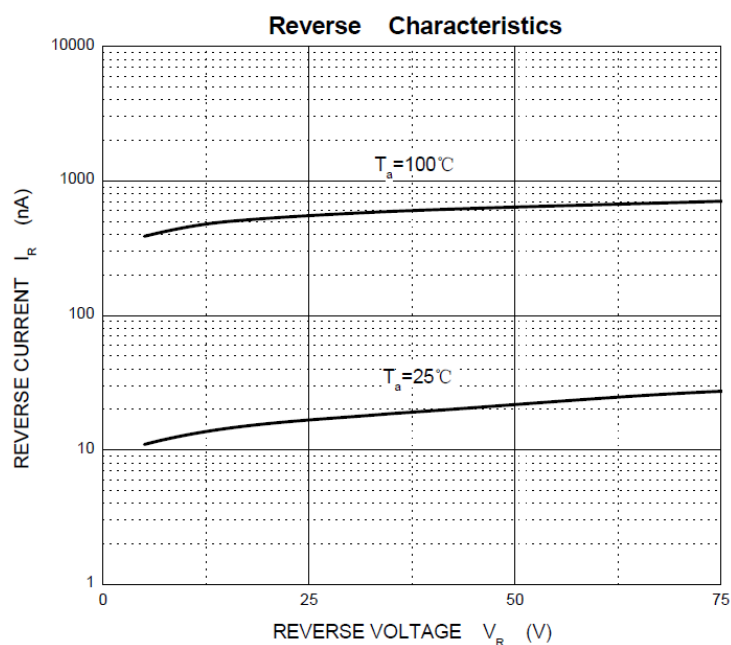
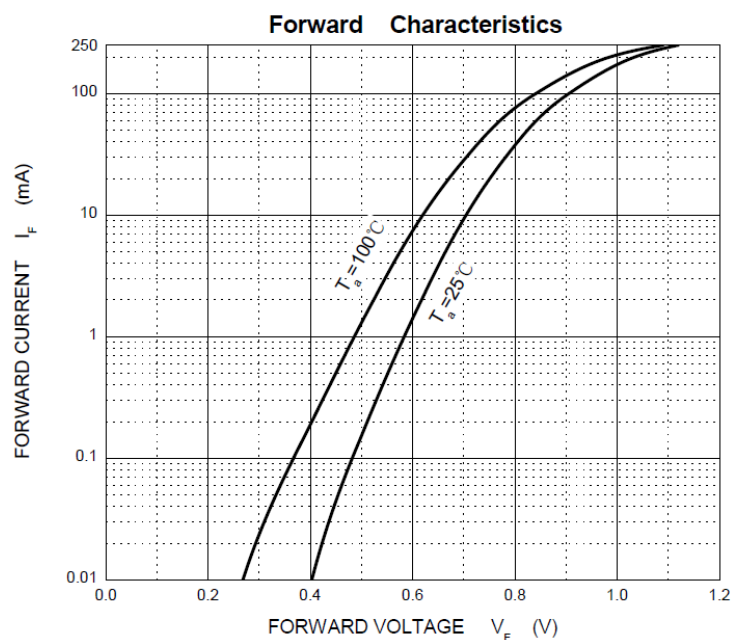
Features
·Small Package ·Low Reverse Current ·Fast Switching Speed ·Surface Mount Package Ideally Suited for Automatic Insertion ·Pb-Free package is available ·RoHS product for packing code suffix "G" ·Halogen free product for packing code suffix "H" ·Moisture Sensitivity Level 1 ·AEC-Q101 Qualified ·Marking : 61 & 6

Ordering Information			
Part No.	Remark	Package	Packing
BAS516T1	General	SOD523	3000 / Tape & Reel
BAS516T1-H	Halogen Free		
BAS516T1-Q	AEC-Q101 qualified		

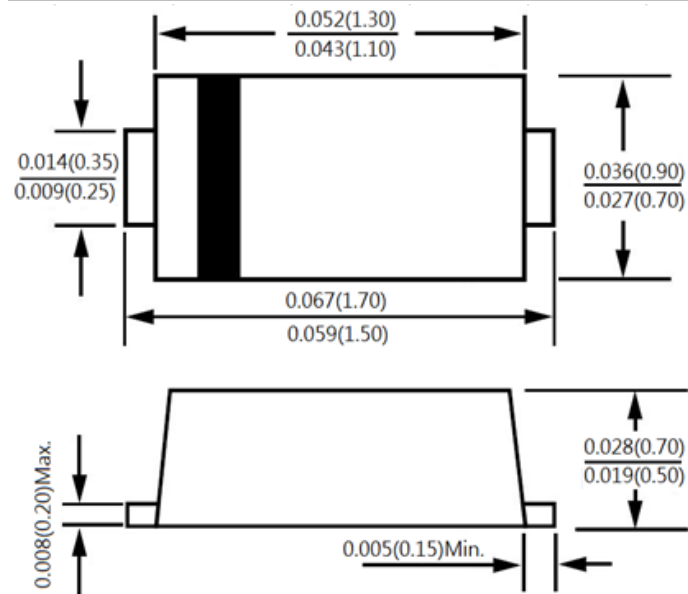
Maximum Ratings (T _a =25°C unless otherwise noted)			
Parameter	Symbol	Limit	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	75	V
Average Rectified Forward Current	I _O	250	mA
Non-Repetitive Peak Forward Surge Current	I _{FSM}	4	A
		0.5	
Power Dissipation	P _D	200	mW
Thermal Resistance From Junction To Ambient	R _{θJA}	625	°C/W
Junction temperature	T _J	150	°C
Operating/ Storage temperature	T _{STG}	-55~+150	°C

Electrical Characteristics (T _a =25°C unless otherwise noted)						
Parameter	Symbol	Test conditions	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	V _(BR)	I _R = 100μA	75	—	—	V
Reverse Voltage Leakage Current	I _R	V _R =25V	—	—	30	nA
		V _R =75V	—	—	1	μA
Forward Voltage	V _F	I _F =1mA	—	—	0.715	V
		I _F =10mA	—	—	0.855	
		I _F =50mA	—	—	1	
		I _F =150mA	—	—	1.25	
Total Capacitance	C _T	V _R =0V, f=1MHz	—	—	1	pF
Reverse Recovery Time	t _{rr}	I _F =I _R =10mA I _{rr} =0.1X I _R , R _L =100Ω	—	—	4	ns

Rating and Characteristics Curves



Package Outline Dimensions



SOD523

Dimensions in inches and (millimeters)

Suggested Pad Layout

Symbol	Outline	SOD323 millimeters
A		1.80
B		-
C		0.40
D		0.48
E		-

