

Features

- Average Rectified Output Current: I_O=150 mA
- Power Dissipation of 225mw

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BAS16	SOT-23	A6	3000



1 0 3

Maxmim Ratings (Ta=25°C unless otherwise noted)

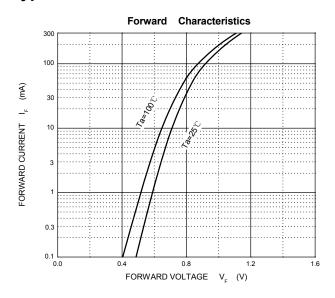
Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	100	V
Peak Repetitive Peak Reverse Voltage Working Peak	V_{RRM}		
Reverse Voltage	V_{RWM}	75	V
DC Blocking Voltage	V_R		
RMS Reverse Voltage	V _{R(RMS)}	53	V
Forward Continuous Current	I _{FM}	300	mA
Average Rectified Output Current	Io	150	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	2.0	А
Power Dissipation	Pd	225	mW
Thermal Resistance Junction to Ambient	$R_{ heta JA}$	556	°C/W
Junction Temperature	Tj	150	°C
Storage Temperature	T _{STG}	-55~+150	$^{\circ}$

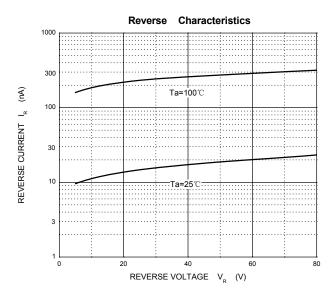
Electrcal Charcteristics (Ta=25°C unless otherwise specified)

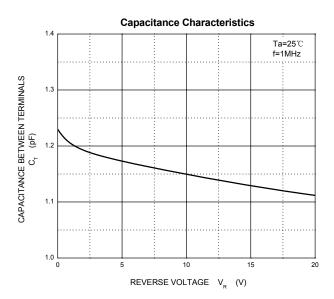
Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	I _R = 100μA	75		V
Reverse voltage leakage current	I _R	V _R =75V		1	μΑ
Forward voltage	V _F	I _F =1mA I _F =10mA I _F =50mA I _F =150mA		0.715 0.855 1 1.25	V
Diode capacitance	C_D	V _R =0, f=1MHz		2	pF
Reveres recovery time	t _{rr}	$I_F=I_R=10\text{mA},I_{rr}=0.1\times I_{R,}$ $R_L=100\Omega$		6	ns

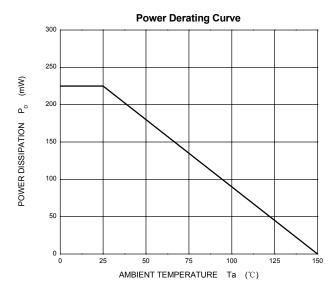


Typical Characteristics



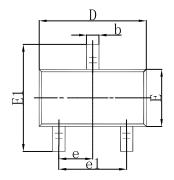


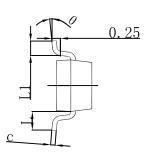


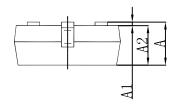




SOT-23 Package Outline Dimensions

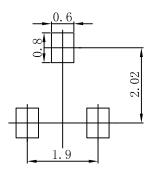






Cumbal	Dimensions In Millimeters		Dimensions In Inches			
Symbol	Min	Max	Min	Max		
Α	0.900	1.150	0.035	0.045		
A1	0.000	0.100	0.000	0.004		
A2	0.900	1.050	0.035	0.041		
b	0.300	0.500	0.012	0.020		
С	0.080	0.150	0.003	0.006		
D	2.800	3.000	0.110	0.118		
E	1.200	1.400	0.047	0.055		
E1	2.250	2.550	0.089	0.100		
е	0.950	0.950 TYP		0.037 TYP		
e1	1.800	2.000	0.071	0.079		
L	0.550 REF		0.022 REF			
L1	0.300	0.500	0.012	0.020		
θ	0°	8°	0°	8°		

SOT-23 Suggested Pad Layout



- Note: 1.Controlling dimension: in millimeters.
- 2.General tolerance:± 0.05mm.
 3.The pad layout is for reference purposes only.



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