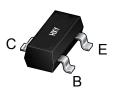


#### **FEATURES**

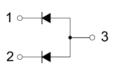
- Forward Current I<sub>F</sub>=200 mA
- Power Dissipation of 225mw



#### **SOT-23**

# Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BAW56	SOT-23	A1	3000



# MAXIMUM RATINGS (Ta=25 unless otherwise noted)

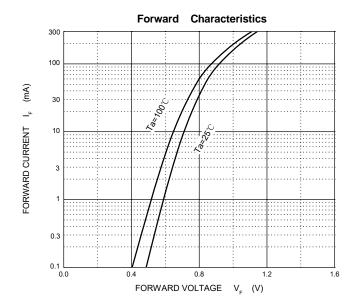
Parameter	Symbol	Limit	Unit
Reverse Voltage	V <sub>R</sub>	70	V
Forward Current	I <sub>F</sub>	200	mA
Non-Repetitive Peak Forward Surge Current @ t=8.3ms	I <sub>FSM</sub>	2.0	Α
Power Dissipation	$P_D$	225	mW
Thermal Resistance Junction to Ambient	$R_{ heta JA}$	556	°C/W
Junction Temperature	TJ	150	°C
Storage Temperature range	T <sub>STG</sub>	-55~+150	°C

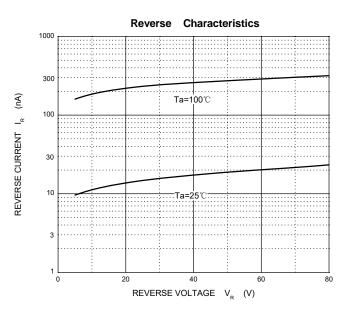
#### ELECTRICAL CHARACTERISTICS (T<sub>a</sub>=25 unless otherwise specified)

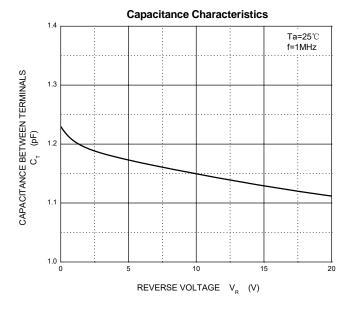
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Reverse breakdown voltage	V <sub>R</sub>	70			V	I <sub>R</sub> =100μA
	$V_{F1}$			0.715	V	I <sub>F</sub> =1mA
Forward voltage	$V_{F2}$			0.855	V	I <sub>F</sub> =10mA
	$V_{F3}$			1	V	I <sub>F</sub> =50mA
	$V_{F4}$			1.25	V	I <sub>F</sub> =150mA
Reverse current	I <sub>R</sub>			2.5	μA	V <sub>R</sub> =70V
Capacitance between terminals	C⊤			1.5	pF	V <sub>R</sub> =0,f=1MHz
Payaraa raaayary tima				6	ns	$I_F = I_R = 10 \text{mA},$
Reverse recovery time	t <sub>rr</sub>					Irr= $0.1 \times I_R$ , $R_L = 100\Omega$

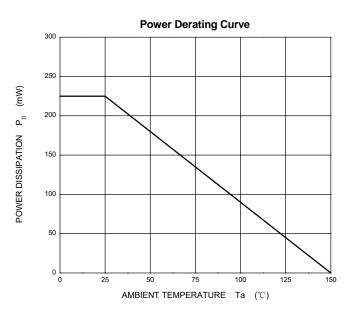


### **Typical Characteristics**

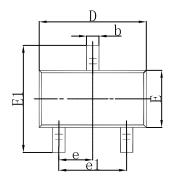


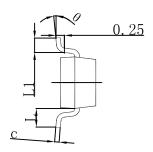


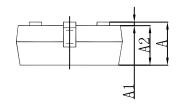




# **SOT-23 Package Outline Dimensions**

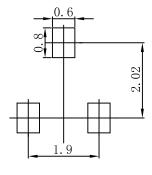






Symbol	Dimensions	In Millimeters	Dimensions In Inches		
	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950 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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