

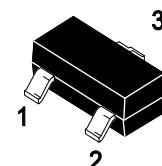
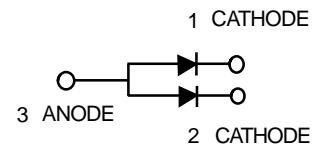


迈拓电子
MAITUO ELECTRONIC

BAW56 Ultra High Speed Switching Application

1. FEATURES

- Low forward voltage : VF (3) = 0.90V (typ.)
- Fast reverse recovery time : trr = 1.8ns (typ.)
- Small total capacitance : CT = 2.3pF (typ.)
- We declare that the material of product compliance with RoHS requirements and Halogen Free.



2. DEVICE MARKING AND RESISTOR VALUES

SOT23

Device	Marking	Shipping
BAW56	A1	3000/Tape&Reel

3. MAXIMUM RATINGS($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Limits	Unit
Maximum (peak) reverse voltage	VRM	85	V
Reverse voltage	VR	80	V
Maximum (peak) forward current	IFM	300(Note 1)	mA
Average forward current	IO	100(Note 1)	mA
Surge current (10ms)	IFSM	2(Note 1)	A
Power dissipation	P	150	mW
Junction temperature	Tj	125	°C
Storage temperature range	Tstg	-55 to +125	°C

1. Unit rating. Total rating = Unit rating \times 1.5.

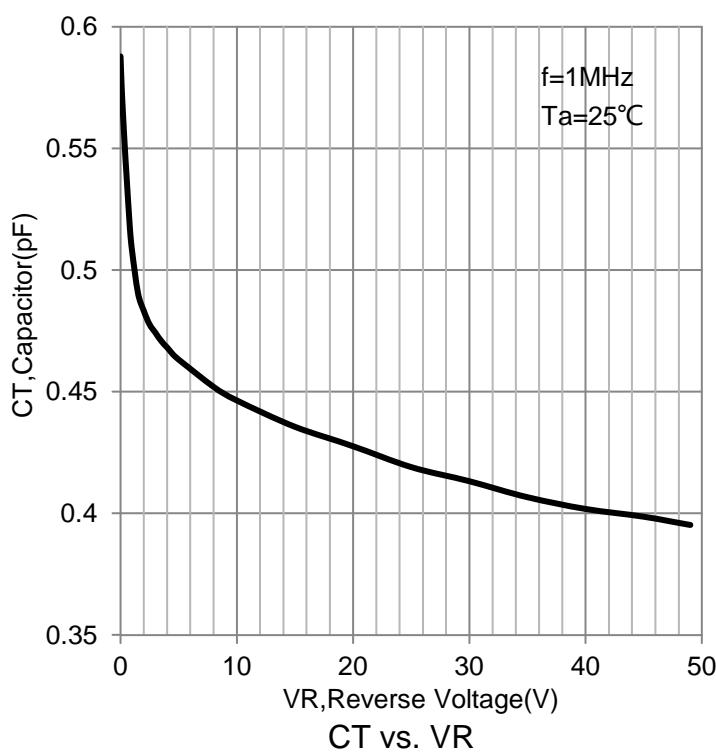
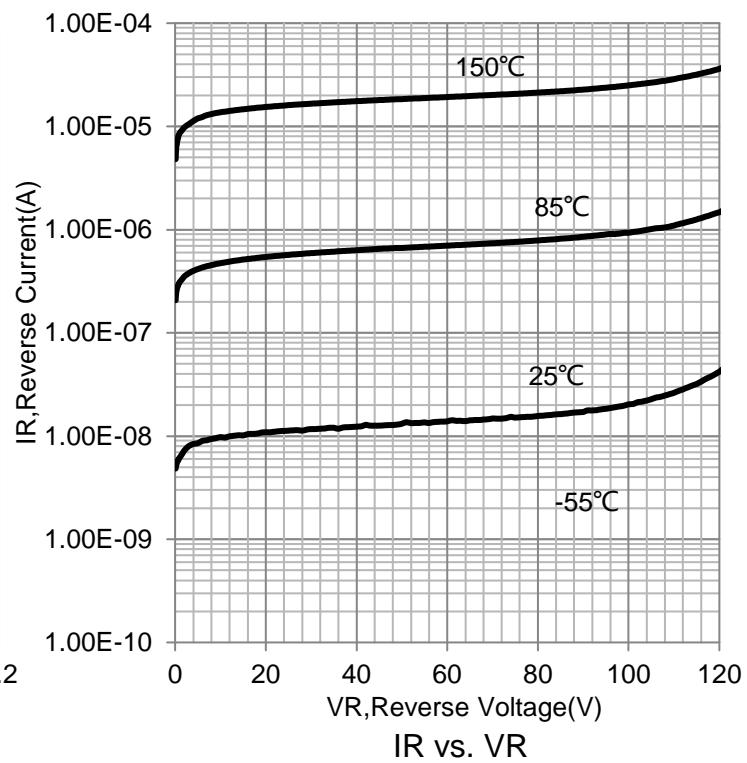
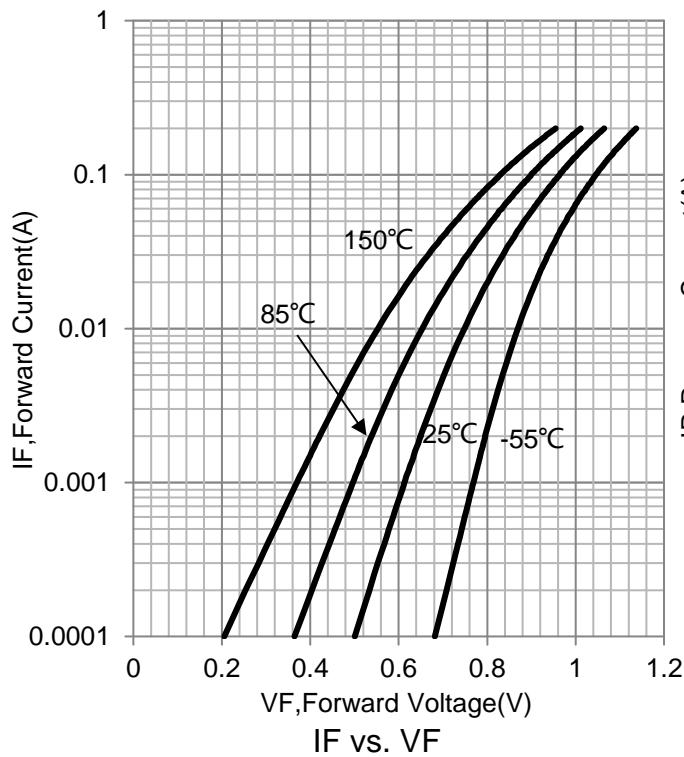
4. ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

CHARACTERISTICS	Symbol	Min	Typ.	Max	Unit
Forward voltage (IF = 1mA) (IF = 10mA) (IF = 100mA)	VF	-	0.60 0.75 0.9	- - 1.2	V
Reverse current (VR = 30V) (VR=80V)	IR	-	-	0.1 0.5	μA
Total capacitance (f=1MHz, VR = 0)	CT	-	2.3	4	pF
Reverse Recovery Time (IF=10mA)	Tr	-	1.8	4	nS



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5.ELECTRICAL CHARACTERISTICS CURVES



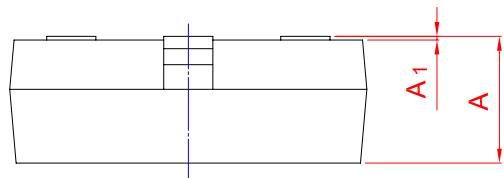
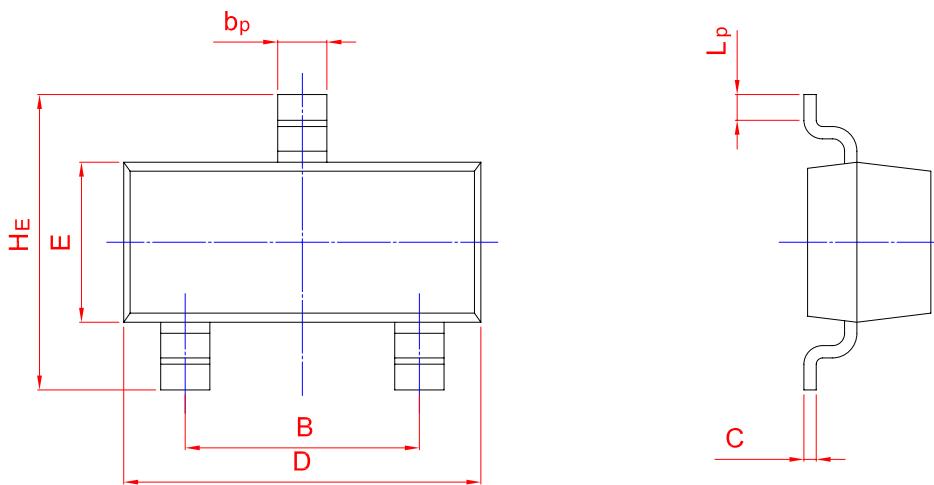


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PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



UNIT	A	B	b_p	C	D	E	H_E	A_1	L_p
mm	1.40	2.04	0.50	0.19	3.10	1.65	3.00	0.100	0.50
	0.95	1.78	0.35	0.08	2.70	1.20	2.20	0.013	0.20