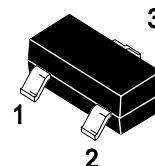
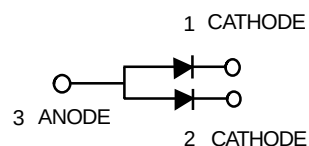




BAW56 Ultra High Speed Switching Application

1. FEATURES

- Low forward voltage : $V_F(3) = 0.90V$ (typ.)
- Fast reverse recovery time : $t_{rr} = 1.8ns$ (typ.)
- Small total capacitance : $C_T = 2.3pF$ (typ.)
- We declare that the material of product compliance with RoHS requirements and Halogen Free.



2. DEVICE MARKING AND RESISTOR VALUES

Device	Marking	Shipping
BAW56	A1	3000/Tape&Reel

SOT23

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

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

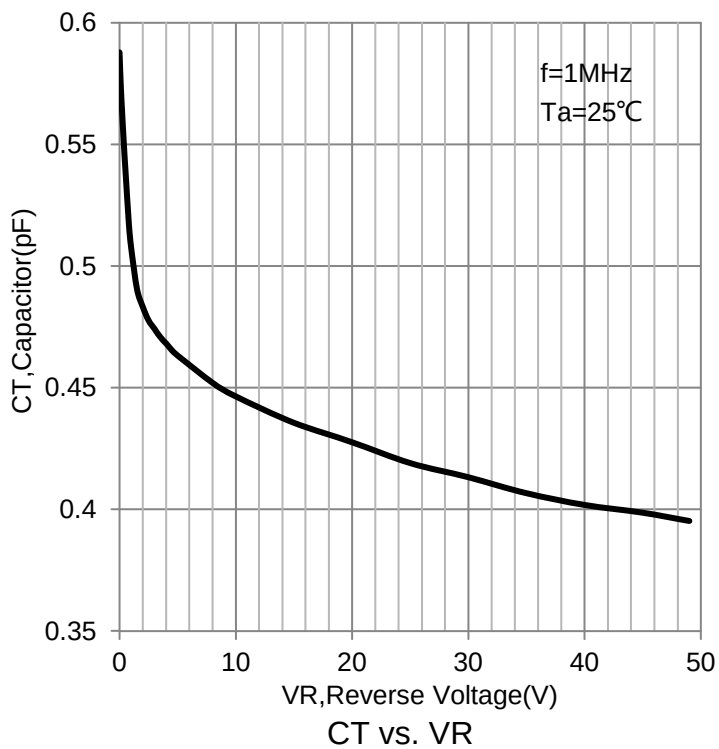
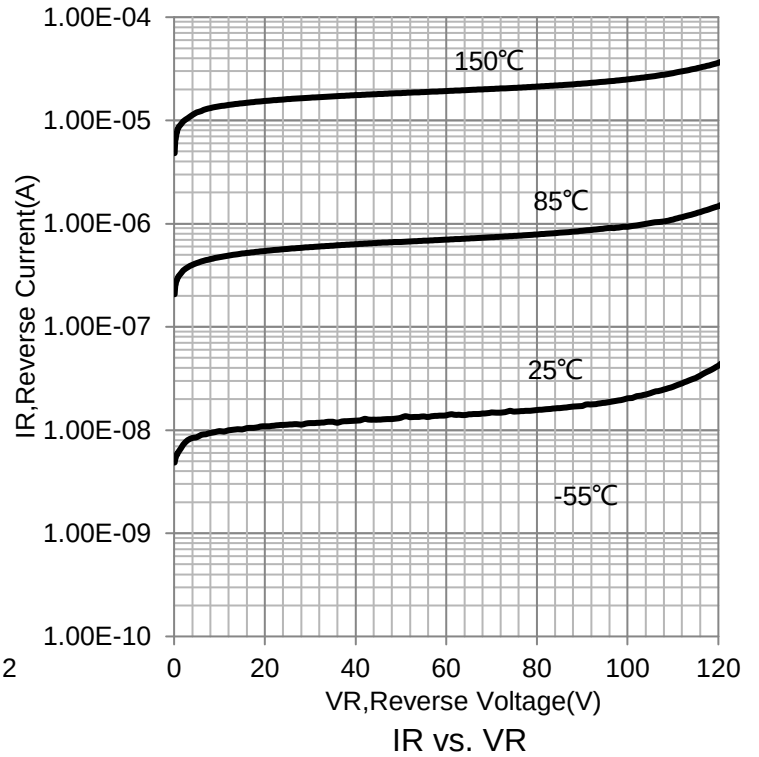
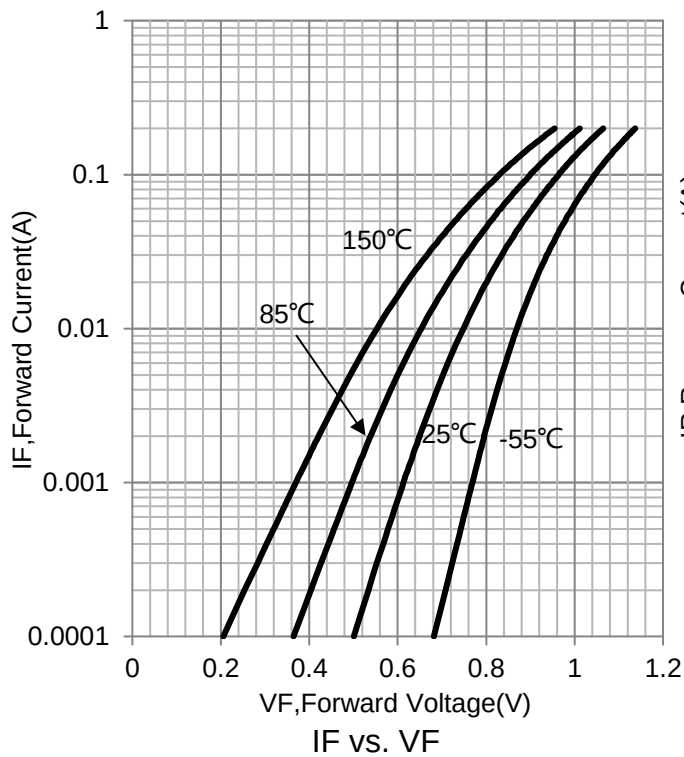
1. Unit rating. Total rating = Unit rating $\times$ 1.5.

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

CHARACTERISTICS	Symbol	Min	Typ.	Max	Unit
Forward voltage ($I_F = 1mA$) ($I_F = 10mA$) ($I_F = 100mA$)	V_F	- - -	0.60 0.75 0.9	- - 1.2	V
Reverse current ($V_R = 30V$) ($V_R = 80V$)	I_R	- -	- -	0.1 0.5	μA
Total capacitance ($f = 1MHz, V_R = 0$)	C_T	-	2.3	4	pF
Reverse Recovery Time ($I_F = 10mA$)	T_{rr}	-	1.8	4	nS



5.ELECTRICAL CHARACTERISTICS CURVES

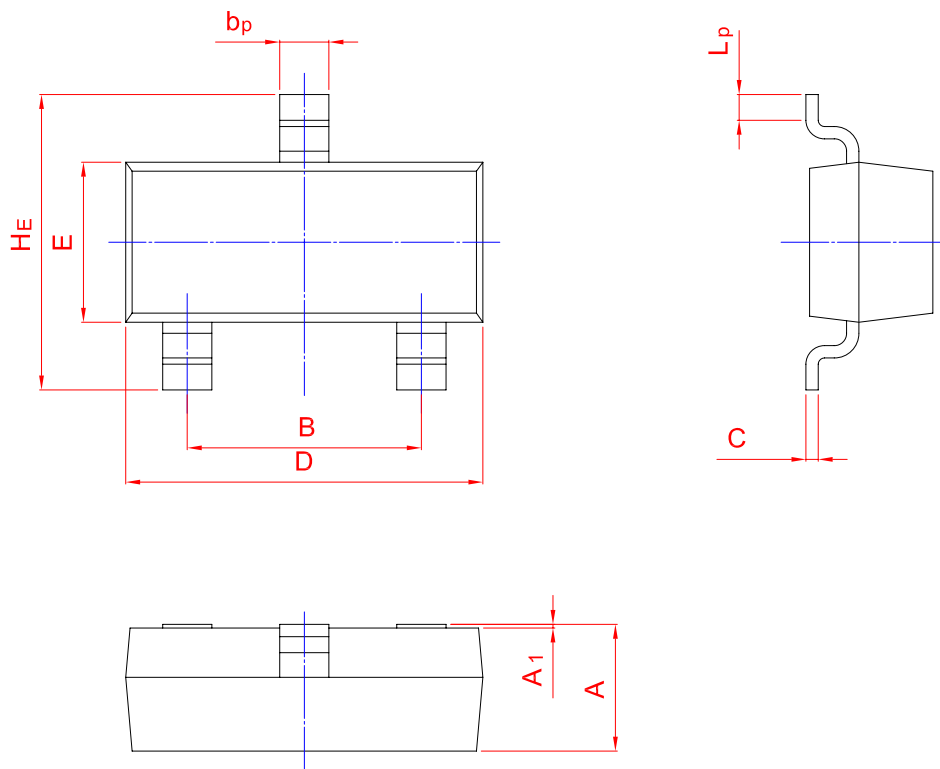
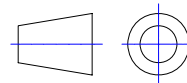




PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



UNIT	A	B	bp	C	D	E	HE	A1	Lp
mm	1.40 0.95	2.04 1.78	0.50 0.35	0.19 0.08	3.10 2.70	1.65 1.20	3.00 2.20	0.100 0.013	0.50 0.20