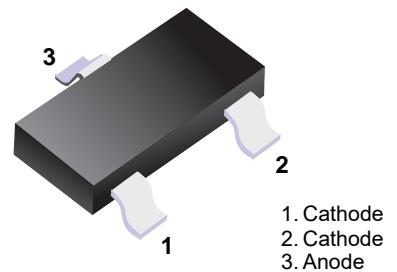


BAW56

■ Switching Diodes

■ Features

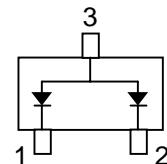
- Low forward voltage
- Fast reverse recovery time
- Small total capacitance



■ Simplified outline(SOT-23)

■ Marking

Marking	A1
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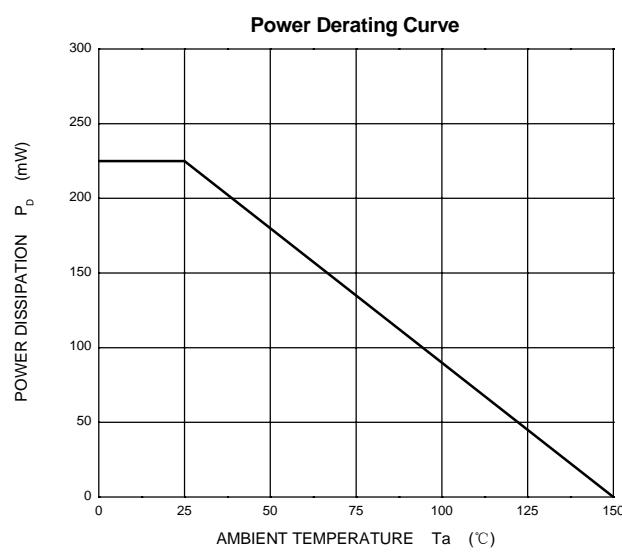
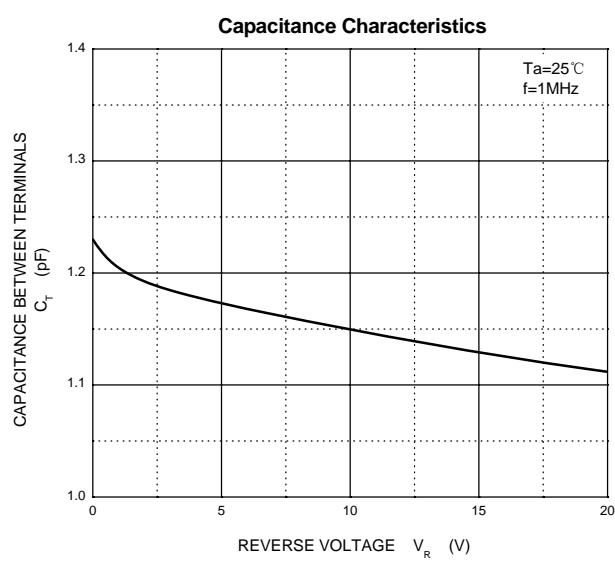
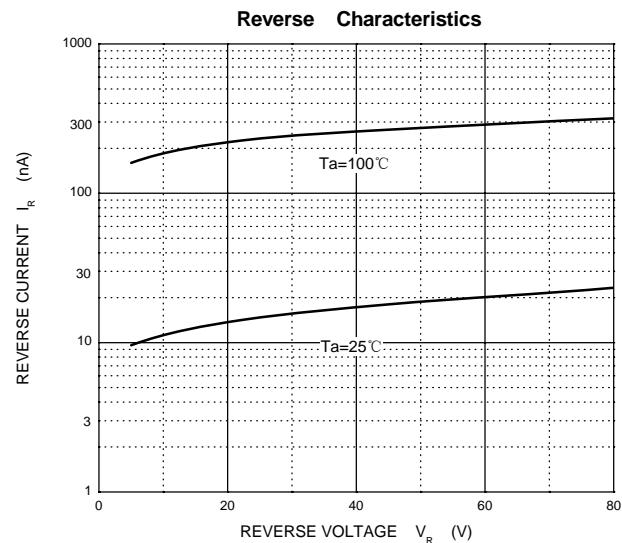
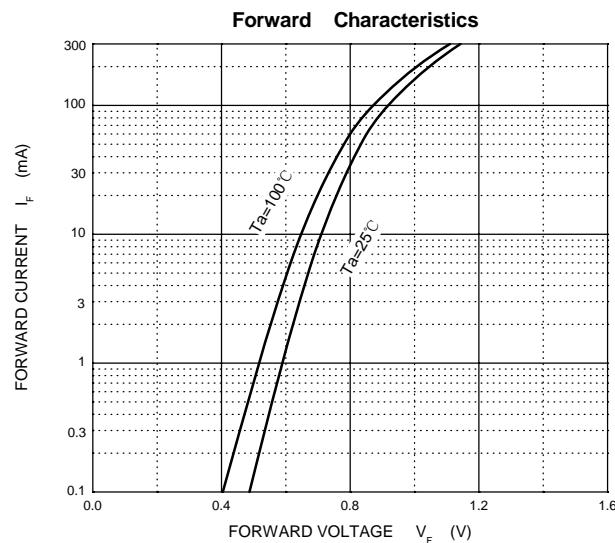


■ Absolute Maximum Ratings Ta = 25°C

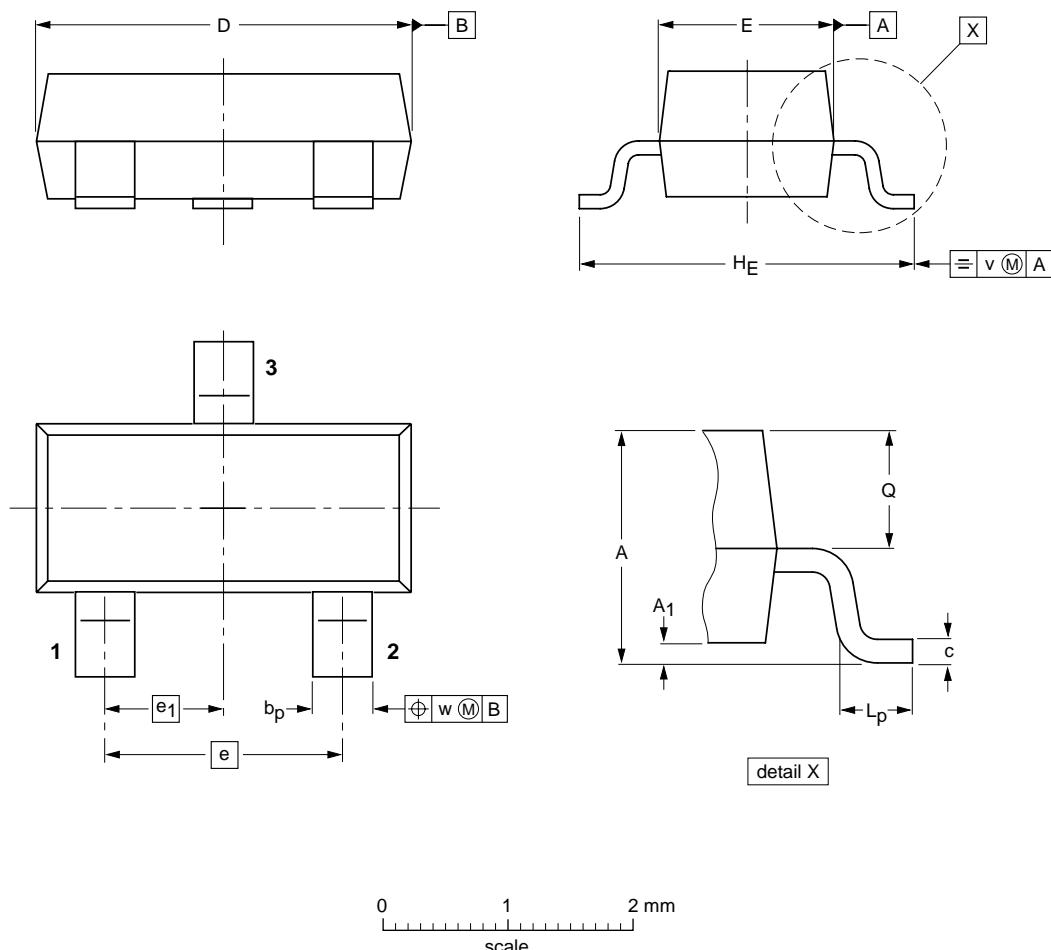
Parameter	Symbol	Value	Unit
Reverse Voltage	V _R	70	V
Average Rectified Forward Current	I _{F(AV)}	200	mA
Non-repetitive Peak Forward Surge Current	I _{FSM}	2	A
Total Device Dissipation	P _{tot}	225	mW
Operating Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{STG}	- 55 to + 150	°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Typ.	Max.	Unit
Reverse Breakdown Voltage at I _R = 100 μA	V _R	70	-	V
Forward Voltage at I _F = 1 mA at I _F = 10 mA at I _F = 50 mA at I _F = 150 mA	V _F	- - - -	0.715 0.855 1 1.25	V
Reverse Current at V _R = 70 V	I _R	-	2.5	μA
Reverse Recovery Time at I _F = I _R = 10 mA, I _{RR} = 0.1*I _R , R _L = 100 Ω	t _{rr}	-	6	ns
Total Capacitance at V _R = 0 V, f = 1 MHz	C _T	-	1.5	pF



■ SOT-23



DIMENSIONS (mm are the original dimensions)

UNIT	A	A ₁ max.	b _p	c	D	E	e	e ₁	H _E	L _p	Q	v	w
mm	1.1 0.9	0.1	0.48 0.38	0.15 0.09	3.0 2.8	1.4 1.2	1.9	0.95	2.5 2.1	0.45 0.15	0.55 0.45	0.2	0.1