

BAW56/BAV70/BAV99

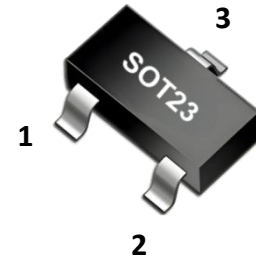
Switching Diodes

DESCRIPTION

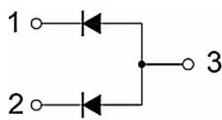
The BAW56/BAV70/BAV99 meet the ROHS and Green Product requirement with full function reliability approved.

FEATURES

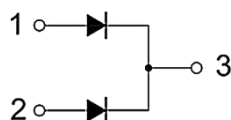
- * Fast Switching Speed
- * For General Purpose Switching Applications
- * High Conductance



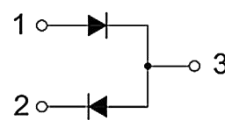
❖ BAW56



❖ BAV70

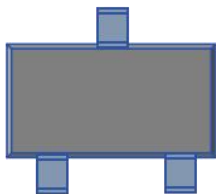


❖ BAV99



MARKING (BAW56 :A1 BAV70:A4 BAV99:A7)

Example Marking: A 1



ABSOLUTE MAXIMUM RATINGS (TA=25°C, unless otherwise specified.)

SYMBOL	PARAMETER	VALUE	UNIT
VR	Reverse Voltage	70	V
IF	Forward Current	0.2	A
IFSM	Non-Repetitive Peak Forward Surge Current @t=8.3ms	2.0	A
PD	Power Dissipation	0.225	W
TJ	Junction Temperature	150	°C
TSTG	Storage Temperature	-55~150	°C
RθJA	Thermal Resistance from Junction to Ambient	556	°C/W
RθJC	Thermal Resistance Junction to Case	26	°C/W

ELECTRICAL CHARACTERISTICS (TA=25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse breakdown voltage	VR	IR=100μA	70			V
Reverse current	IR	VR=70V			2.5	μA
Forward voltage	VF	IR=1mA			0.715	V
		IR=10mA			0.855	V
		IR=50mA			1	V
		IR=150mA			1.25	V



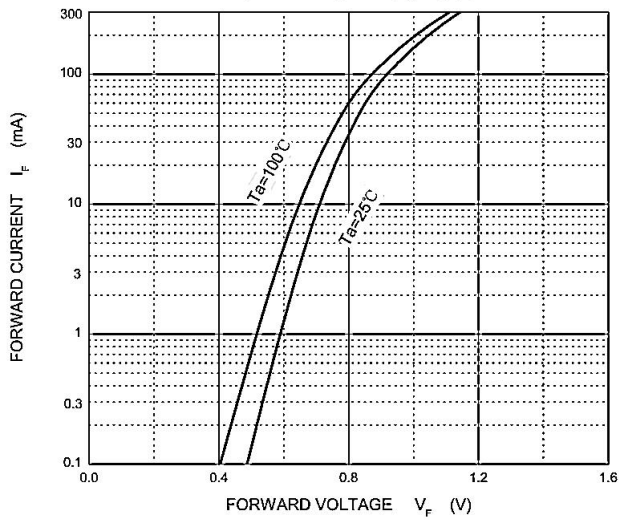
BAW56/BAV70/BAV99

Switching Diodes

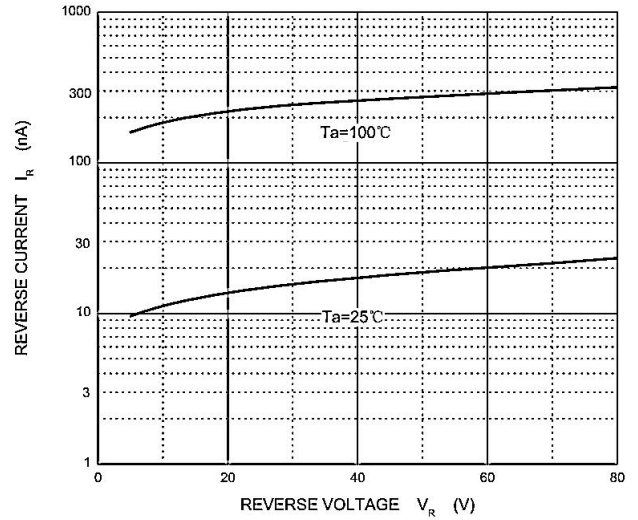
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Capacitance between terminals	CT	VR=0, f=1MHz			1.5	pF
Reverse recovery time	trr	IF=IR=10mA, Irr=0.1×IR, RL=100Ω			6	ns

Typical Characteristics

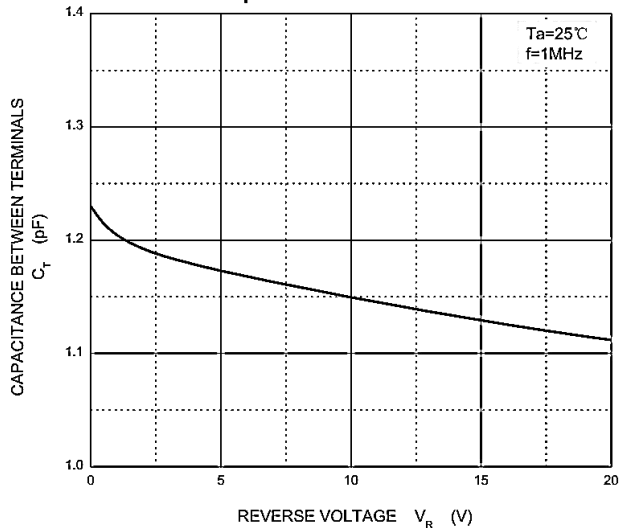
Forward Characteristics



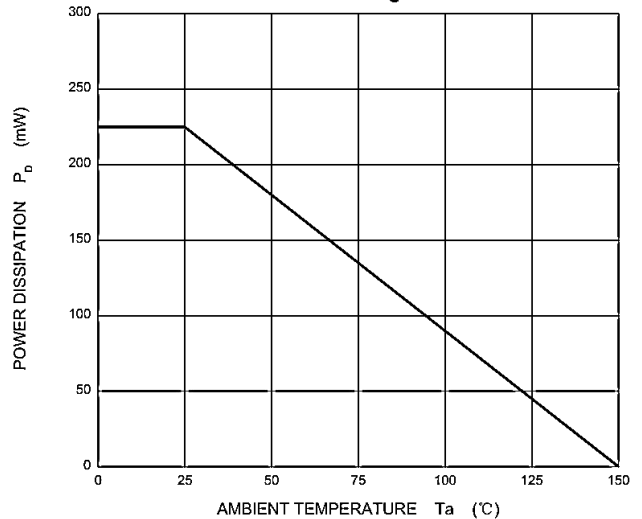
Reverse Characteristics



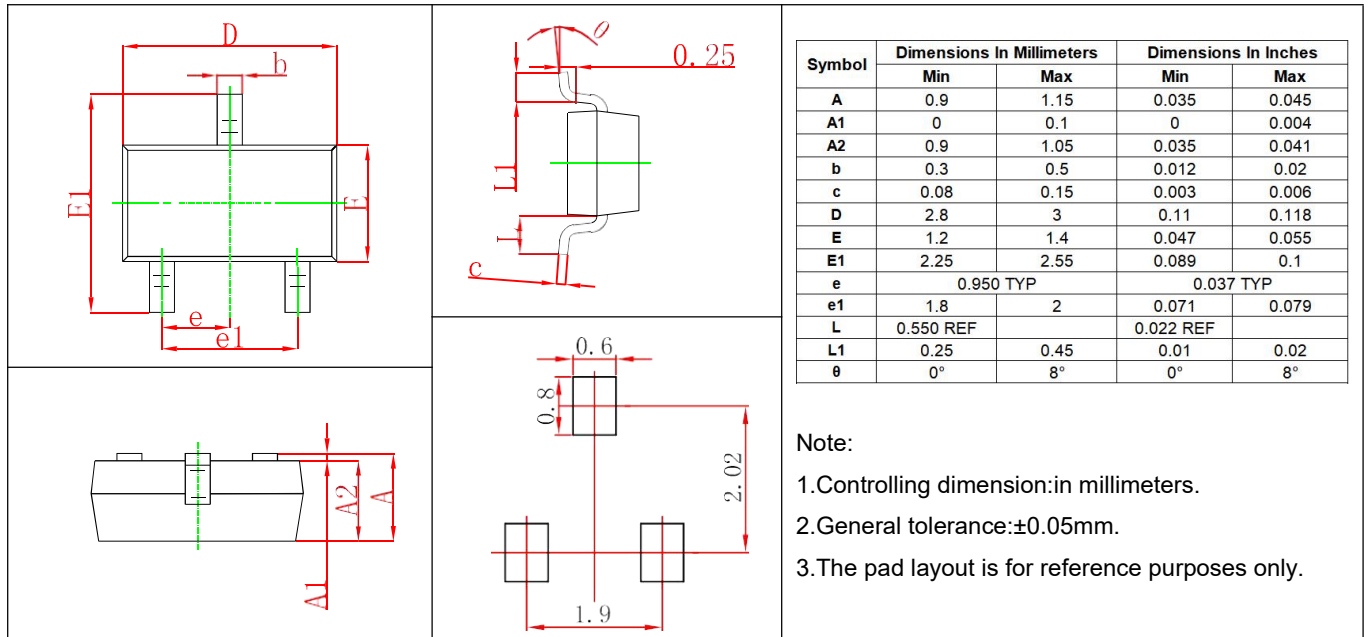
Capacitance Characteristics



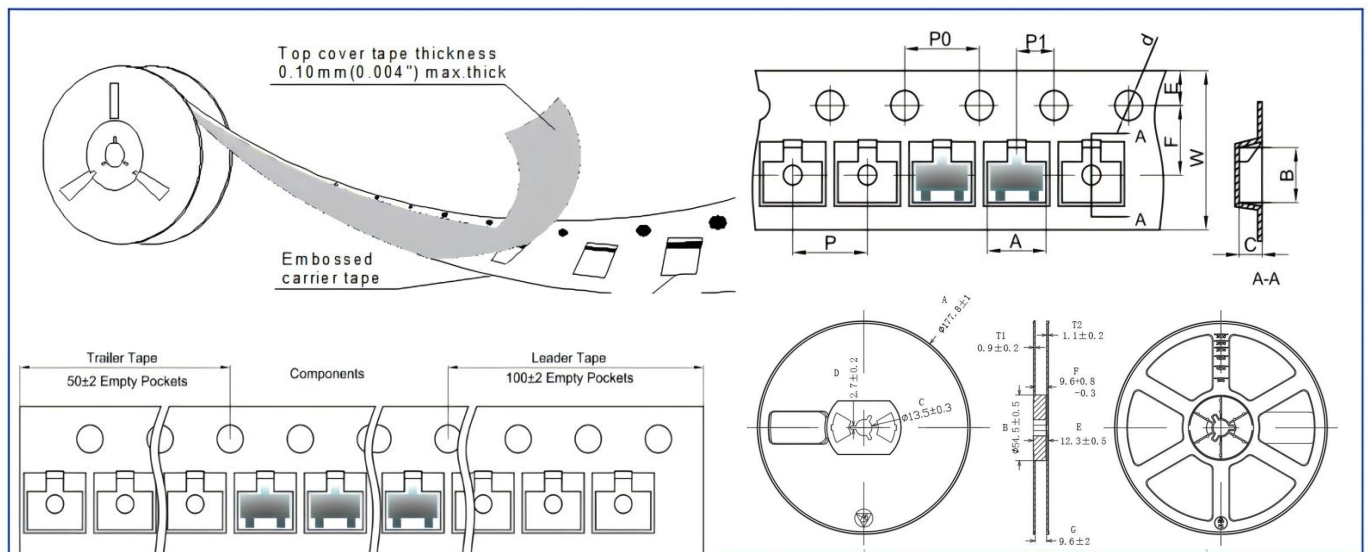
Power Derating Curve



■ SOT23 PACKAGE OUTLINE DIMENSIONS



■ REEL PACKING



Dimensions are in millimeter										
PKG TYPE	A	B	C	d	E	F	Po	P	P1	W
SOT-23	3.17	2.77	1.22	Φ1.55	1.75	3.50	4.00	4.00	2.00	8.00
Reel Option	A	B	C	D	E	F	G	T1	T2	Q.TY PER REEL
7" Dia	Φ177.8	Φ54.5	Φ13.5	2.7	12.3	9.6	9.6	0.9	1.1	3000PCS