



BAW56/BAV70/BAV99

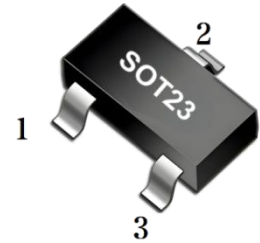
Switching Diodes

DESCRIPTION

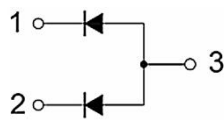
The BAW56/BAV70/BAV99 meet the ROHS and Green Product requirement with full function reliability approved.

FEATURES

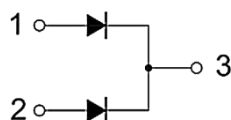
- * Fast Switching Speed
- * For General Purpose Switching Applications
- * High Conductance



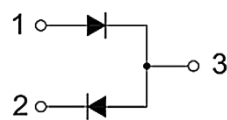
❖BAW56



❖BAV70

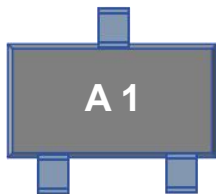


❖BAV99



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



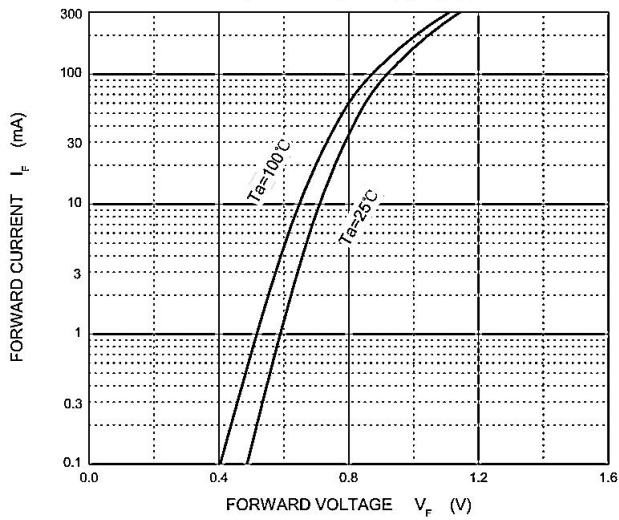
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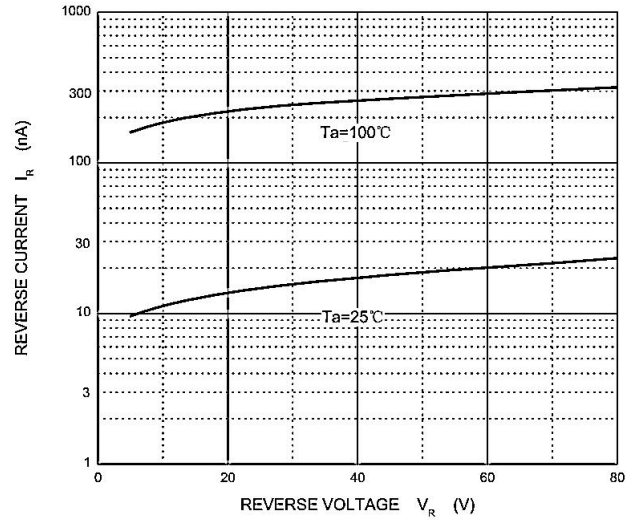
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Capacitance between terminals	CT	VR=0,f=1MHz			1.5	pF
Reverse recovery time	trr	IF=IR=10mA,Irr=0.1×IR,RL=100Ω			6	ns

■ **Typical Characteristics**

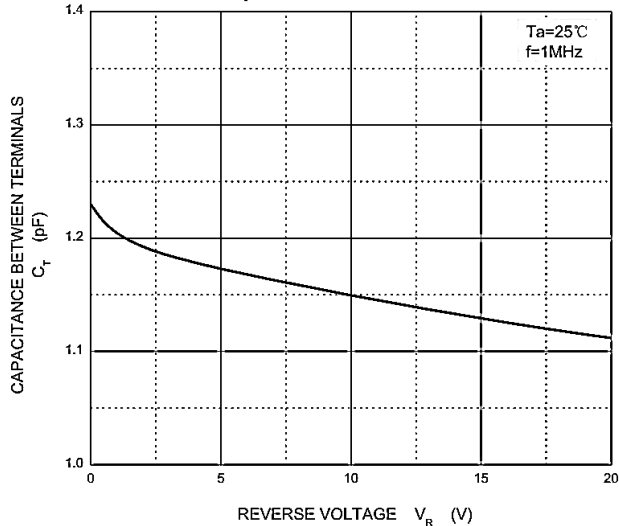
Forward Characteristics



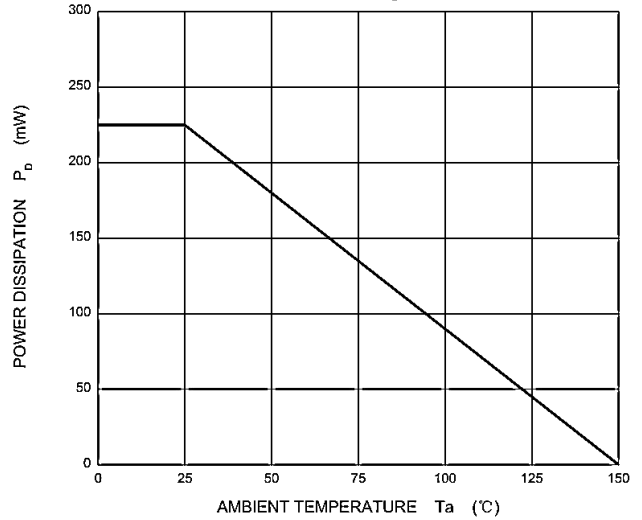
Reverse Characteristics



Capacitance Characteristics



Power Derating Curve





BAW56/BAV70/BAV99

Switching Diodes

■ SOT23 PACKAGE OUTLINE DIMENSIONS

Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	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
c	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
e	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
theta	0°	8°	0°	8°

Note:
1. Controlling dimension: in millimeters.
2. General tolerance: ±0.05mm.
3. The pad layout is for reference purposes only.

■ REEL PACKING

Top cover tape thickness 0.10mm(0.004") max.thick

Embossed carrier tape

Trailer Tape 50±2 Empty Pockets

Components

Leader Tape 100±2 Empty Pockets

Dimensions: P0, P1, P, A, W, B, C, A-A, D, W1, W2, G, H, I

Dimensions are in millimeter										
PKG TYPE	A	B	C	d	E	F	Po	P	P1	W
SOT-23	3.15	2.77	1.22	Φ1.50	1.75	3.50	4.00	4.00	2.00	8.00
Reel Optiom	D	D1	D2	G	H	I	W1	W2	Q.TY PER REEL	
7" Dia	Φ178.0	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30	3000PCS	
13" Dia	φ330.0	/	13.00	/	/	R6.50	9.50	12.30	10000PCS	