

JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

SOT-23 Plastic-Encapsulate Diodes

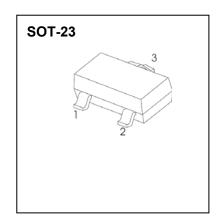
BAW56/BAV70/BAV99

SWITCHING DIODE

FEATURES

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

BAW56	BAV70	BAV99
1 ○	1 ∘ → → 3	1 0 3
2 ○ ◄	2 0	2 ○ ◀
MARKING:A1	MARKING:A4	MARKING:A7
A1	A4 = =	A7
A1	Ā4 □ □	Ā.7



Solid dot = Green molding compound device, if none, the normal device

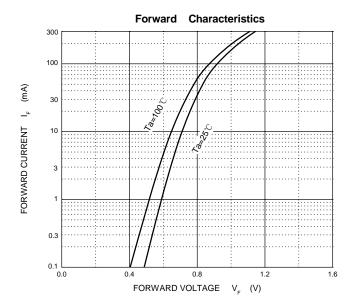
Maximum Ratings @Ta=25℃

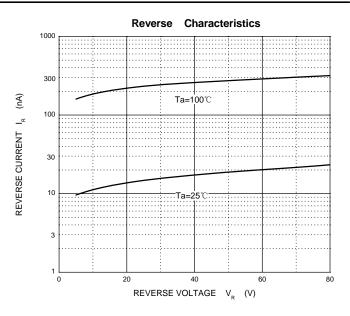
Parameter	Symbol	Limit	Unit
Reverse Voltage	V_{R}	70	V
Forward Current	I _F	200	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	2.0	Α
Power Dissipation	P _D	225	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	556	°C/W
Junction Temperature	TJ	150	°C
Storage Temperature range	T _{STG}	-55~+150	$^{\circ}$

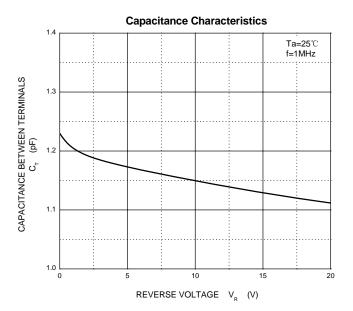
Electrical Characteristics @Ta=25℃

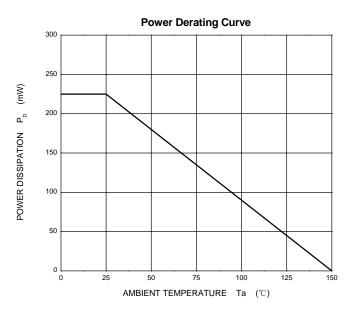
Parameter	Symbol	Min	Тур	Max	Unit	Conditions	
Reverse breakdown voltage	V _R	70			V	I _R =100μA	
	V _{F1}			0.715	V	I _F =1mA	
Forward voltage	V _{F2}			0.855	V	I _F =10mA	
1 orward voltage	V _{F3}			1	V	I _F =50mA	
	V _{F4}			1.25	V	I _F =150mA	
Reverse current	I _R			2.5	μA	V _R =70V	
Capacitance between terminals	Ст			1.5	pF	V _R =0,f=1MHz	
Barrana	4			6	ns	$I_F = I_R = 10 \text{mA},$	
Reverse recovery time	t _{rr}			0		Irr= $0.1 \times I_R$, $R_L = 100\Omega$	

Typical Characteristics

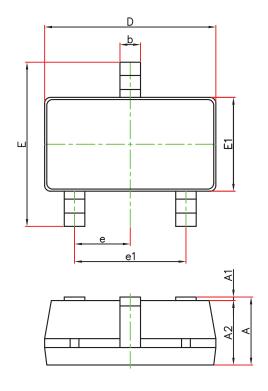


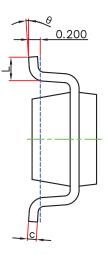






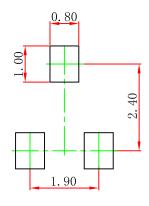
SOT-23 Package Outline Dimensions





Symbol	Dimensions Ir	n Millimeters	Dimensions In Inches		
Symbol	Min.	Max.	Min.	Max.	
Α	1.050	1.250	0.041	0.049	
A1	0.000	0.100	0.000	0.004	
A2	1.050	1.150	0.041	0.045	
b	0.300	0.500	0.012	0.020	
С	0.100	0.200	0.004	0.008	
D	2.820	3.020	0.111	0.119	
E1	1.500	1.700	0.059	0.067	
E	2.650	2.950	0.104	0.116	
е	0.950(BSC)	0.037((BSC)	
e1	1.800	2.000	0.071	0.079	
L	0.300	0.600	0.012	0.024	
θ	0°	8°	0°	8°	

SOT-23-3L Suggested Pad Layout



Note:

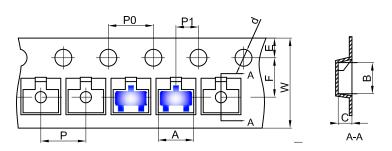
- 1.Controlling dimension:in millimeters.
- 2.General tolerance:± 0.05mm.
- 3. The pad layout is for reference purposes only.

NOTICE

JCET reserve the right to make modifications, enhancements, improvements, corrections or other changes without further notice to any product herein. JCET does not assume any liability arising out of the application or use of any product described herein.

SOT-23 Tape and Reel

SOT-23-3L Embossed Carrier Tape

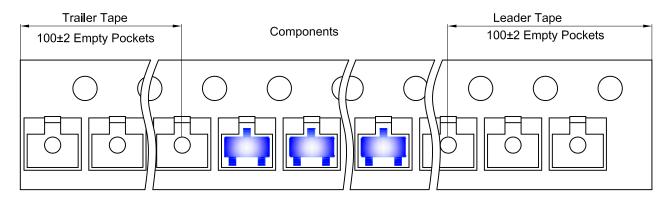


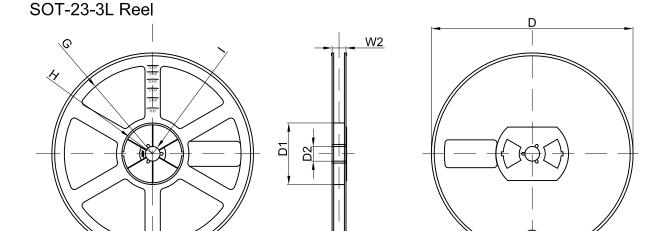
Packaging Description:

SOT-23-3L parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in standard option are shipped with 3,000 units per 7" or 18.0cm diameter reel. The reels are clear in color and is made of polystyrene plastic (anti-static coated).

Dimensions are in millimeter									
Pkg type A B C d E F P0 P P1 W							W		
SOT-23-3L									

SOT-23-3L Tape Leader and Trailer





	Dimensions are in millimeter								
Reel Option	D	D1	D2	G	Н	1	W1	W2	
7"Dia	Ø180.00	60.00	13.00	R78.00	R25.60	R6.50	9.50	13.10	

W1

REEL	Reel Size	Вох	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	30,000 pcs	203×203×195	120,000 pcs	438×438×220	