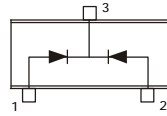
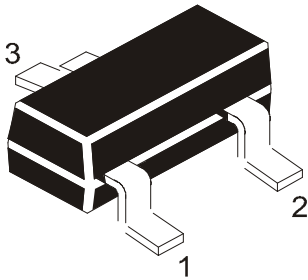




SILICON PLANAR DUAL SWITCHING DIODE.

BAV74



Pin Configuration
1 = ANODE
2 = ANODE
3 = CATHODE

SOT-23
Formed SMD Package

Marking

BAV74 - A5

High-Speed Switching Dual Diodes, Common Cathode

ABSOLUTE MAXIMUM RATINGS (Rating Per Diode)

DESCRIPTION	SYMBOL	VALUE	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	60	V
Continuous Reverse Voltage	V_R	50	V
Forward Current (DC)	$*I_F$		
Single Diode Loaded		215	mA
Double Diode Loaded		125	mA
Repetitive Peak Forward Current	I_{FRM}	450	mA
Non Repetitive Peak Forward Current	I_{FSM}		A
t=1 ms		4.0	A
t=1ms		1.0	A
t=1s		0.5	A
Power Dissipation up to $T_a=25^\circ\text{C}$	$*P_D$	250	mW
Storage Temperature	T_{stg}	- 55 to +150	$^\circ\text{C}$
Junction Temperature	T_j	150	$^\circ\text{C}$

THERMAL RESISTANCE

Junction to tie-point	$R_{th(j-tp)}$	360	K/W
Junction to Ambient in free air	$*R_{th(j-a)}$	500	K/W

*Mounted on an FR4 printed circuit board

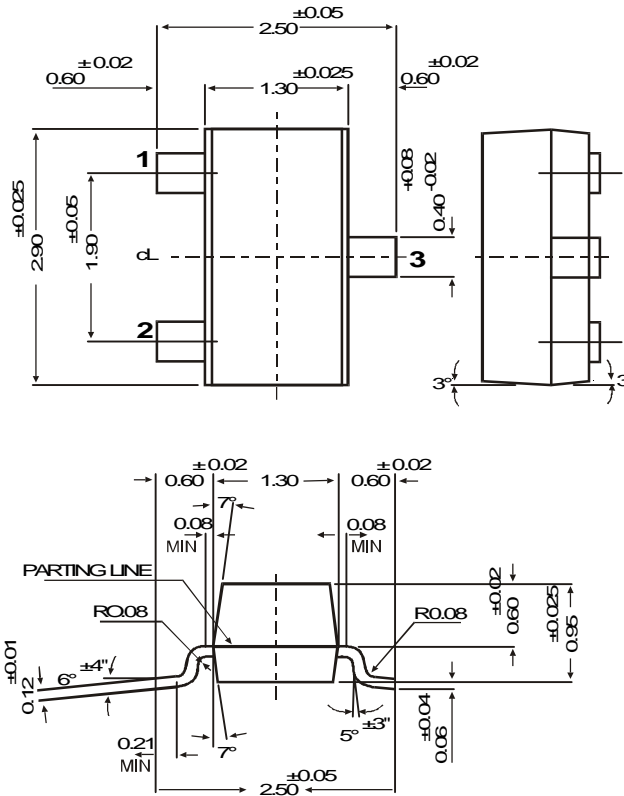
ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$ unless specified otherwise) per diode

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	MAX	UNIT
Forward Voltage	V_F	$I_F = 1\text{mA}$		715	mV
		$I_F = 10\text{mA}$		855	mV
		$I_F = 100\text{mA}$		1.0	V
		$I_F = 150\text{mA}$		1.25	V
Reverse Current	I_R	$V_R=25\text{V}$		30	nA
		$V_R=50\text{V}$		0.1	μA
		$V_R=25\text{V}, T_a=150^\circ\text{C}$		30	μA
		$V_R=50\text{V}, T_a=150^\circ\text{C}$		100	μA
Diode Capacitance	C_d	$V_R=0\text{V}, f=1\text{MHz}$		2.0	pF
Reverse Recovery Time	t_{rr}	When switched from $I_F=10\text{mA}$, to $I_R=10\text{mA}$, $I_R=1\text{mA}, R_L=100\Omega$		4.0	ns
Forward Recovery Voltage	V_{fr}	When switched from $I_F=10\text{mA}$, to $t_r=20\text{ns}$		1.75	V

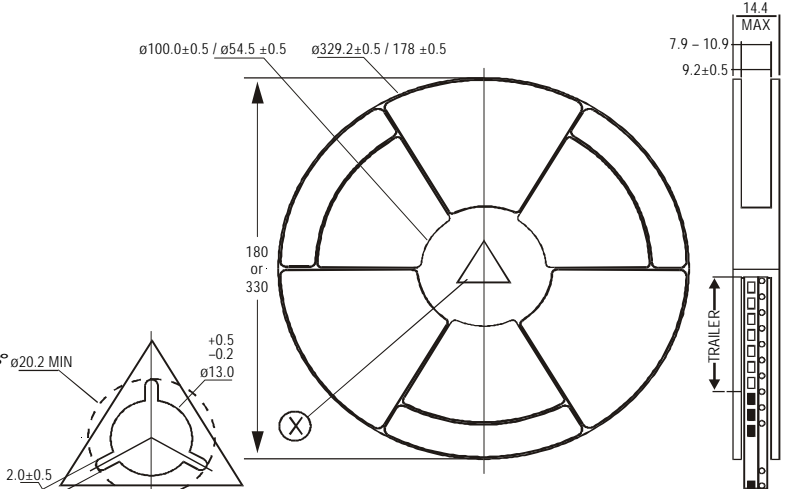
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SOT-23
Formed SMD Package

SOT-23 Formed SMD Package



SOT-23 Package Reel Information
Reel Specifications for W Packing (13" and 7")



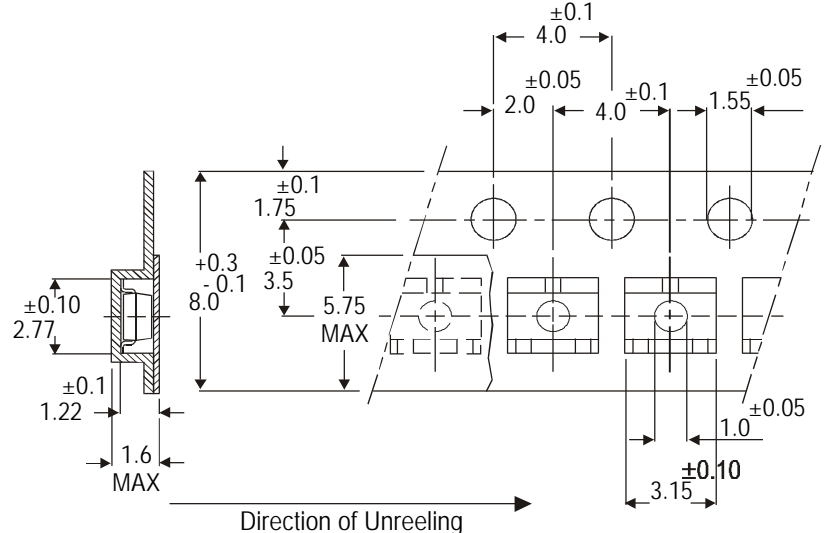
All dimensions in mm
330 / 180 mm – Antistatic Coated Plastic Reel

NOTES:

	8mm Tape Size of Reel	8mm Tape Size of Reel
No. of Devices	330 mm (13") 10,000 Pcs	180 mm (7") 3,000 Pcs

1. The bandolier of 330 mm reel contains at least 10,000 devices.
2. The bandolier of 180 mm reel contains at least 3,000 devices.
3. No more than 0.5% missing devices / reel. 50 empty compartments for 330 mm reel. 15 empty compartments for 180 mm reel.
4. Three consecutive empty places might be found provided this gap is followed by 6 consecutive devices.
5. The carrier tape (leader) starts with at least 75 empty positions (equivalent to 330 mm). In order to fix the carrier tape a self adhesive tape of 20 to 50 mm is applied. At the end of the bandolier at least 40 empty positions (equivalent to 160 mm) are there.

Tape Specification for SOT-23 Surface Mount Device



All dimensions in mm

Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
SOT-23 T&R	3K/feel	136 gm/3K pcs	3" x 7.5" x 7.5"	12 K	17" x 15" x 13.5"	192 K	12 kgs
	10K/feel	415 gm/10K pcs	9" x 9" x 9"	51 K	19" x 19" x 19"	408 K	28 kgs
			13" x 13" x 0.5"	10 K	17" x 15" x 13.5"	300 K	16 kgs