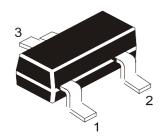






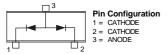
SURFACE MOUNT FAST SWITCHING DIODES



BAV23A BAV23C BAV23S

SOT-23 Formed SMD Package

BAV23A



BAV23C

Pin Configuration
1 = ANODE
2 = ANODE
3 = CATHODE

BAV23S

Pin Configuration
1 = ANODE
2 = CATHODE
3 = ANODE/
CATHODE

Marking :- RA

Marking:-PZ

Marking :- PY

ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise specified)

DESCRIPTION	SYMBOL	VALUE	UNITS	
Repetitive Peak Reverse Voltage	V_{RRM}	250	V	
Working Peak Reverse Voltage	V_{RWM}	200	V	
DC Blocking Voltage	V_R	200		
IS Reverse Voltage V _{R(RMS)} 141		141	V	
Forward Continuous Current	I _{FM}	400	mA	
Non-Repetitive Peak Forward Surge Current				
@ t = 1.0 μs	IEGM I	9.0	Α	
@ t = 100 μs		3.0		
@ t = 1.0 ms		1.7		
Repetitive Peak Forward Surge Current (1)	I _{FRM}	625	mA	
Power Dissipation (1)	P _D	350	mW	
Thermal Resistance Junction to Ambient Air (1)	$R_{ hetaJA}$	357	°C/W	
Operating and Storage Temperature Range	$T_{j,} T_{STG}$	-65 to +150	°C	

Electrical Characteristics (T_=25°C unless specified otherwise)

DESCRIPTION	SYMBOL	CONDITIONS	MIN	MAX	UNIT	
Forward Voltage (2)	W	I _F =100mA		1.0	V	
Forward Voltage (2)	V _F	I _F =200mA		1.25	V	
Reverse Current @ Rated DC Blocking Voltage	I _R	T _j =25°C		100	nA	
(2)		T _j =150°C		100	μΑ	
Total Capacitance	C _⊤	V _R =0, f=1MHz		5	pF	
		IF=IR=30mA,				
Reverse Recovery Time	t _{rr}	Irr=1.0XIR,		50	ns	
		$RL=100\Omega$				

Notes

- (1). Short duration test pulse used to minimize self -heating effect.
- (2). Part mounted on FR-4 board.

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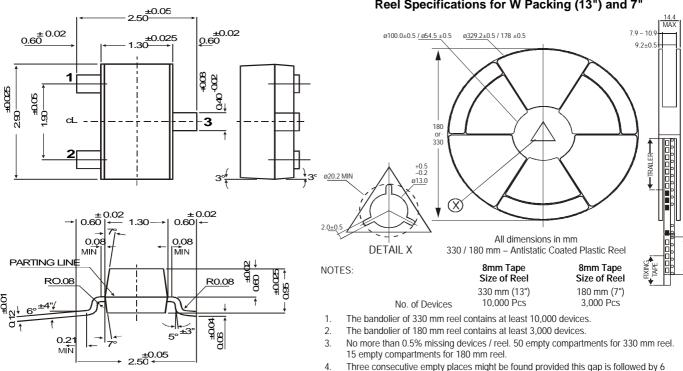




BAV23A BAV23C BAV23S

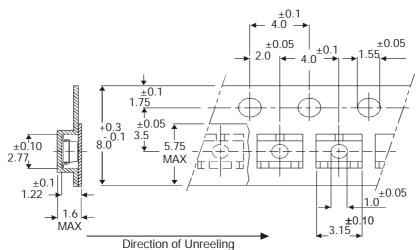
SOT-23 Formed SMD Package

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



- No more than 0.5% missing devices / reel. 50 empty compartments for 330 mm reel. 15 empty compartments for 180 mm reel.
- Three consecutive empty places might be found provided this gap is followed by 6 consecutive devices.
- 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



Packing Detail

All dimensions in mm

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

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TUV



Customer Notes

BAV23A BAV23C BAV23S

Disclaimer

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C-120 Naraina Industrial Area, New Delhi 110 028, India. Telephone + 91-11-2579 6150, 4141 1112 Fax + 91-11-2579 5290, 4141 1119

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