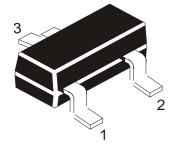
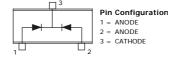


SILICON PLANAR DUAL SWITCHING DIODE.





BAV74

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			
t=1 m6	I _{FSM}	4.0	А
t=1ms		1.0	А
t=1s		0.5	А
Power Dissipation up to T _a =25 ^o C	*P _D	250	mW
Storage Temperature	T _{stg}	- 55 to +150	°C
Junction Temperature	Ti	150	°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^oC unless specified otherwise) per diode

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	MAX	UNIT
Forward Voltage	V _F	I _F = 1mA		715	mV
		I _F = 10mA		855	mV
		I _F = 100mA		1.0	V
		I _F = 150mA		1.25	V
Reverse Current	I _R	V _R =25V		30	nA
		V _R =50V		0.1	μA
		V _R =25V, T _a =150⁰C		30	μA
		V _R =50V, T _a =150°C		100	μA
Diode Capacitance	C _d	V _R =0V, f=1MHz		2.0	pF
Barrana Baaaraa Tima	4	When switched from I _F =10mA, to I _B =10mA,		4.0	
Reverse Recovery Time	t _{rr}	I_{R} =1011A, 101 I_{R} =1011A, I_{R} =1011A, I_{R} =100 Ω		4.0	ns
Forward Recovery Voltage	V _{fr}	When switched from I _F =10mA, to t _r =20ns		1.75	V

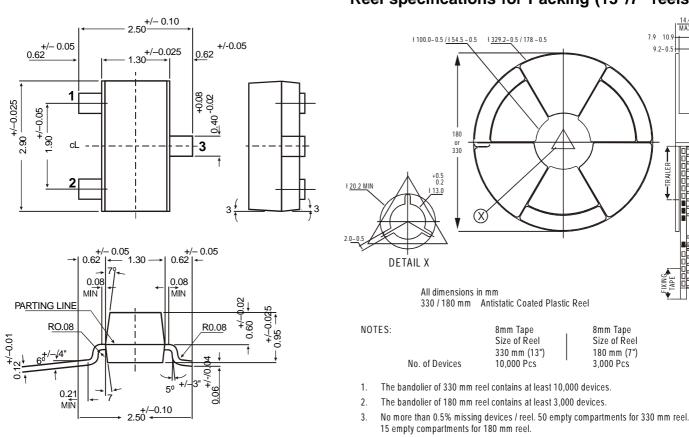
BAV74 Rev_1 090803E

Continental Device India Limited

MAX

7.9 10.9

9.2-0.5



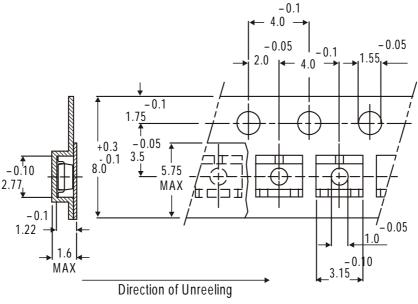
SOT-23 Formed SMD Package

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.

Three consecutive empty places might be found provided this gap is followed by 6

Tape Specification for SOT-23 Surface Mount Device

4.



All dimensions in mm

SOT-23 Package Reel Information Reel specifications for Packing (13"/7" reels)

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/reel		3" x 7.5" x 7.5" 9" x 9" x 9"	12.0K 51.0K	17" x 15" x 13.5" 19" x 19" x 19"	192.0K 408.0K	12 kgs 28 kgs
	10K/reel	415 gm/10K pcs	13" x 13" x 0.5"	10.0K	17" x 15" x 13.5"	300.0K	16 kgs

Customer Notes

Component Disposal Instructions

- 1. CDIL Semiconductor Devices are RoHS compliant, customers are requested to please dispose as per prevailing Environmental Legislation of their Country.
- 2. In Europe, please dispose as per EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Discrete Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished on the CDIL Web Site/CD are believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Discrete Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

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