

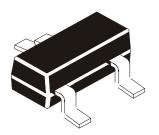
Continental Device India Limited

An ISO/TS16949 and ISO 9001 Certified Company



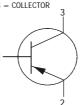
PNP SILICON PLANAR TRANSISTOR

CMBT 9015 SOT-23



PIN CONFIGURATION (PNP)

1 = BASE
2 = EMITTER
3 = COLLECTOR
2



MARKING: AS BELOW

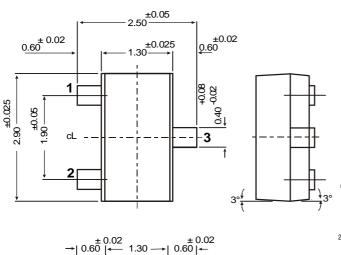
ABSOLUTE MAXIMUM RATINGS

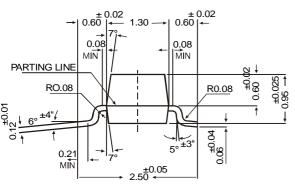
DESCRIPTION	SYMBOL	VALUE	UNIT	
Collector -Base Voltage	VCBO	30	V	
Collector -Emitter Voltage	VCEO	30	V	
Emitter Base Voltage	VEBO	5.0	V	
Collector Current	IC	100	mA	
Collector Dissipation	PC	250	mW	
Operating And Storage Junction	Tj, Tstg	-55 to +150	deg C	
Temperature Range			_	

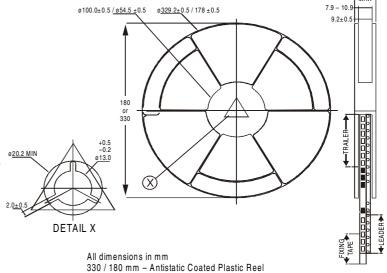
DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Collector -Base Voltage	VCBO	IC=100uA, IE=0	30	-	-	V
Collector -Emitter Voltage	VCEO	IC=1mA, IB=0	30	-	-	V
Emitter Base Voltage	VEBO	IE=100uA, IC=0	5.0	-	-	V
Collector Cut off Current	ICBO	VCB=30V, IE=0	-	-	15	nA
Emitter Cut off Current	IEBO	VEB=5V, IC=0	-	-	500	nA
DC Current Gain	hFE	IC=1mA, VCE=5V	150	-	1000	
Collector Emitter Saturation Voltage	VCE(Sat)	IC=100mA,IB=5mA	-	-	0.70	V
Base Emitter Saturation Voltage	VBE(Sat)	IC=100mA,IB=5mA	-	-	1.2	V
Dynamic Characteristics						
Transition Frequency	ft	VCE=5V,IC=10mA,	125	-	-	MHz
• •		f=100MHz				
Output Capacitance	Cob	VCB=10V,f=1MHz	-	-	3.5	pF
CLASSIFICATION	CMBT901	5 B	С		D	
hFE	150-1000	100-300	200-600		400-1000	
MARKING	15	15B	15C		15D	

SOT-23 Formed SMD Package

SOT-23 Package Reel Information Reel specifications for W" Packing (13" reel)







NOTES: 8mm Tape 8mm Tape Size of Reel Size of Reel 330 mm (13") 180 mm (7") 3,000 Pcs

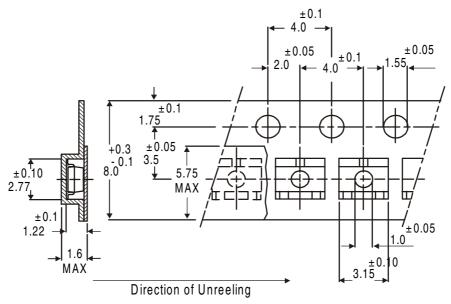
No. of Devices

10,000 Pcs

- The bandolier of 330 mm reel contains at least 10,000 devices.
- The bandolier of 180 mm reel contains at least 3,000 devices.
- 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
- 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

1.



All dimensions in mm

Packing Detail

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PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX			
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt	
S0T-23 T&R	3K/reel	136 gm/3K pcs	3" x 7.5" x 7.5" 9" x 9" x 9"		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

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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Continental Device India Limited
C-120 Naraina Industrial Area, New Delhi 110 028, India.
Telephone + 91-11-2579 6150, 5141 1112 Fax + 91-11-2579 5290, 5141 1119
email@cdil.com www.cdilsemi.com