

Continental Device India Limited

An ISO/TS16949 and ISO 9001 Certified Company

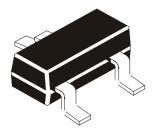


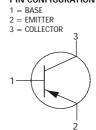
CMBT 9012

PNP SILICON PLANAR TRANSISTOR

PIN CONFIGURATION (PNP)

SOT-23





MARKING: AS BELOW

ABSOLUTE MAXIMUM RATINGS

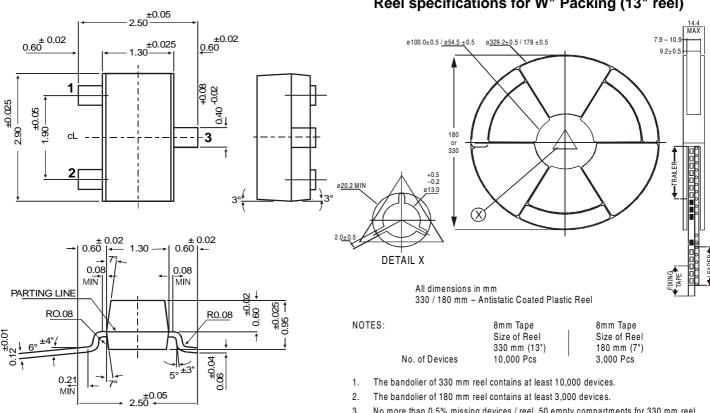
DESCRIPTION	SYMBOL	VALUE	UNIT
Collector -Base Voltage	VCBO	35	V
Collector -Emitter Voltage	VCEO	30	V
Emitter Base Voltage	VEBO	5.0	V
Collector Current Continuous	IC	500	mA
Collector Dissipation	PC	250	mW
Operating And Storage Junction	Tj, Tstg	-55 to +150	deg C
Temperature Range			J

ELECTRICAL CHARACTERISTICS (Ta=25 deg C Unless Otherwise Specified)									
DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT			
Collector -Base Voltage	VCBO	IC=100uA, IE=0	35	-	-	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=25V, IE=0	-	-	100	nA			
Emitter Cut off Current	IEBO	VEB=3V, IC=0	-	-	500	nA			
DC Current Gain	hFE	IC=50mA,VCE=1V *	118	-	305				
		IC=300mA,VCE=1V	40	-	-				
Collector Emitter Saturation Voltage	VCE(Sat)	IC=150mA,IB=15mA	-	-	0.20	V			
		IC=300mA,IB=30mA	-	-	0.60	V			
Base Emitter Saturation Voltage	VBE(Sat)	IC=150mA,IB=15mA	-	-	1.0	V			
		IC=300mA,IB=30mA	-	-	1.20	V			
Dynamic Characteristics									
Transition Frequency	ft	VCE=10V,IC=50mA, f=100MHz	140	-	-	MHz			

CLASSIFICATION G/H/I hFE* 118-305 MARKING 2GI

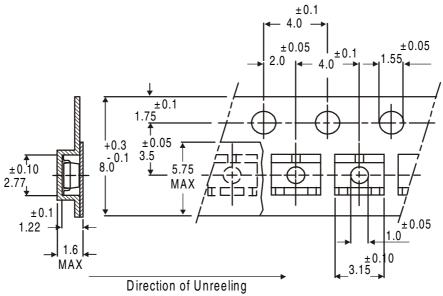
SOT-23 Formed SMD Package

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



- 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



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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