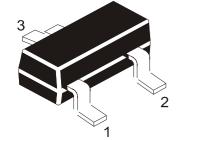


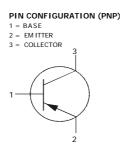
Continental Device India Limited

An ISO/TS16949 and ISO 9001 Certified Company



PNP SILICON PLANAR EPITAXIAL TRANSISTOR





CMBT8550

SOT-23 Formed SMD Package

ABSOLUTE MAXIMUM RATINGS

DESCRIPTION	SYMBOL	VALUE	UNITS
Collector Base Voltage	V _{CBO}	30	V
Collector Emitter Voltage	V _{CEO}	25	V
Emitter Base Voltage	V _{EBO}	6	V
Collector Current Continuous	I _C	800	mA
Collector Dissipation @ T _a =25 ^o C	Pc	250	mW
Operating and Storage Junction Temperature Range	T _j , T _{stg}	- 55 to +125	°C

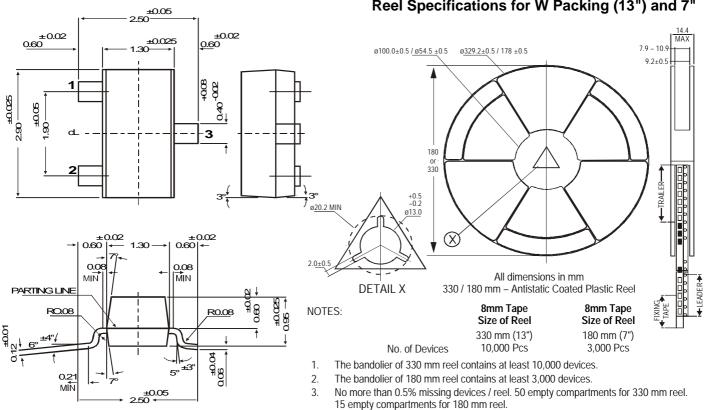
ELECTRICAL CHARACTERISTICS (T_a=25°C unless specified otherwise)

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNITS
Collector Base Voltage	V _{CBO}	I _C =100μA, I _E =0	30			V
Collector Emitter Voltage	V _{CEO}	I _C =10mA, I _B =0	25			V
Emitter Base Voltage	V _{EBO}	I _E =10μA, I _C =0	6			V
Collector Cut off Current	I _{CBO}	V _{CB} =15V, I _E =0			50	nA
Emitter Cut off Current	I _{EBO}	V _{EB} =4V, I _C =0			500	nA
DC Current Gain	h _{FE}	I _C =5mA, V _{CE} =1V	45			
		*I _C =100mA, V _{CE} =1V	100		400	
		I _C =500mA, V _{CE} =1V	40			
Collector Emitter Saturation Voltage	V _{CE(sat)}	I _C =500mA, I _B =50mA			0.5	V
Base Emitter Saturation Voltage	V _{BE(sat)}	I _C =500mA, I _B =50mA			1.2	V
Transition Frequency	f⊤	I _C =100mA, V _{CE} =10V, f=100MHz	100			MHz
Output Capacitance	C _{ob}	V _{CB} =10V, f=1MHz			35	рF

CLASSIFICATIONS	CMBT8550	С	D	E	
*h _{FE}	100 - 400	100 - 200	150 - 300	280 - 400	
MARKING	55	55C	55D	55E	

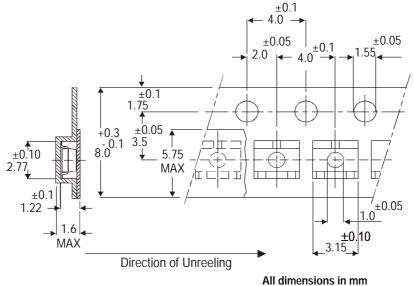
SOT-23 Formed SMD Package

SOT-23 Formed SMD Package



- 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



Packing Detail

<u>J</u>							
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

CMBT8550

SOT-23 Formed SMD Package

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 in the Data Sheet and 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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