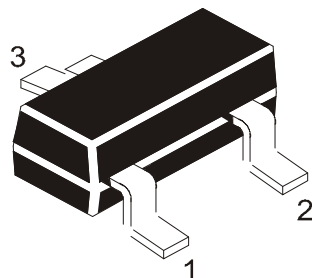


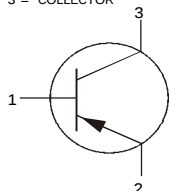
PNP SILICON PLANAR EPITAXIAL TRANSISTOR

CMBT8550



PIN CONFIGURATION (PNP)

1 = BASE
2 = EMITTER
3 = COLLECTOR



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 @ $T_a=25^\circ\text{C}$	P_C	250	mW
Operating and Storage Junction Temperature Range	T_j, T_{stg}	- 55 to +125	$^\circ\text{C}$

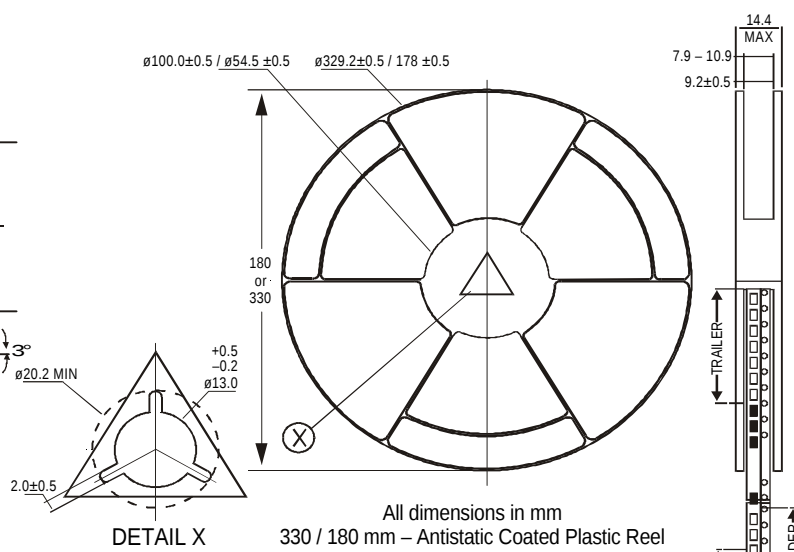
ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$ unless specified otherwise)

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNITS
Collector Base Voltage	V_{CBO}	$I_C=100\mu\text{A}, I_E=0$	30			V
Collector Emitter Voltage	V_{CEO}	$I_C=10\text{mA}, I_B=0$	25			V
Emitter Base Voltage	V_{EBO}	$I_E=10\mu\text{A}, I_C=0$	6			V
Collector Cut off Current	I_{CBO}	$V_{CB}=15\text{V}, I_E=0$			50	nA
Emitter Cut off Current	I_{EBO}	$V_{EB}=4\text{V}, I_C=0$			500	nA
DC Current Gain	h_{FE}	$I_C=5\text{mA}, V_{CE}=1\text{V}$ * $I_C=100\text{mA}, V_{CE}=1\text{V}$ $I_C=500\text{mA}, V_{CE}=1\text{V}$	45 100 40		400	
Collector Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=500\text{mA}, I_B=50\text{mA}$			0.5	V
Base Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=500\text{mA}, I_B=50\text{mA}$			1.2	V
Transition Frequency	f_T	$I_C=100\text{mA}, V_{CE}=10\text{V}, f=100\text{MHz}$	100			MHz
Output Capacitance	C_{ob}	$V_{CB}=10\text{V}, f=1\text{MHz}$			35	pF

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

SOT-23 Package Reel Information

Reel Specifications for W Packing (13") and 7"



1. The bandolier of 330 mm reel contains at least 10,000 devices.
2. The bandolier of 180 mm reel contains at least 3,000 devices.
3. No more than 0.5% missing devices / reel. 50 empty compartments for 330 mm reel. 15 empty compartments for 180 mm reel.
4. 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.

[illegible]

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	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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