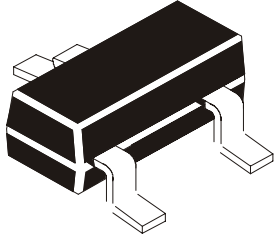
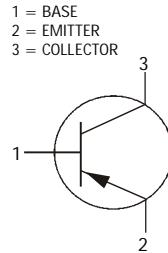


## PNP SILICON PLANAR TRANSISTOR

**CMBT 9015**  
**SOT-23**



PIN CONFIGURATION (PNP)



**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 Temperature Range	Tj, Tstg	-55 to +150	deg C

### 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	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

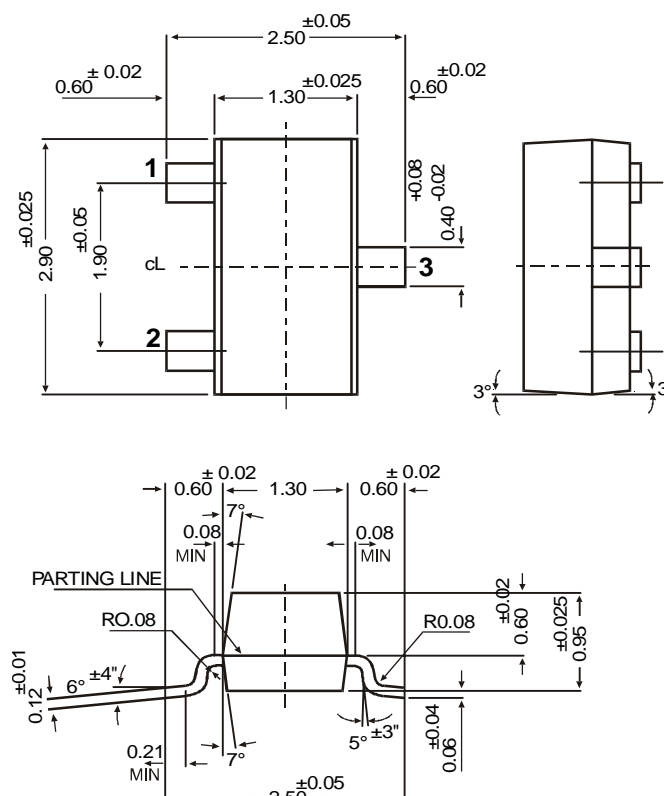
### Dynamic Characteristics

Transition Frequency	ft	VCE=5V, IC=10mA, f=100MHz	125	-	-	MHz
Output Capacitance	Cob	VCB=10V, f=1MHz	-	-	3.5	pF

### CLASSIFICATION

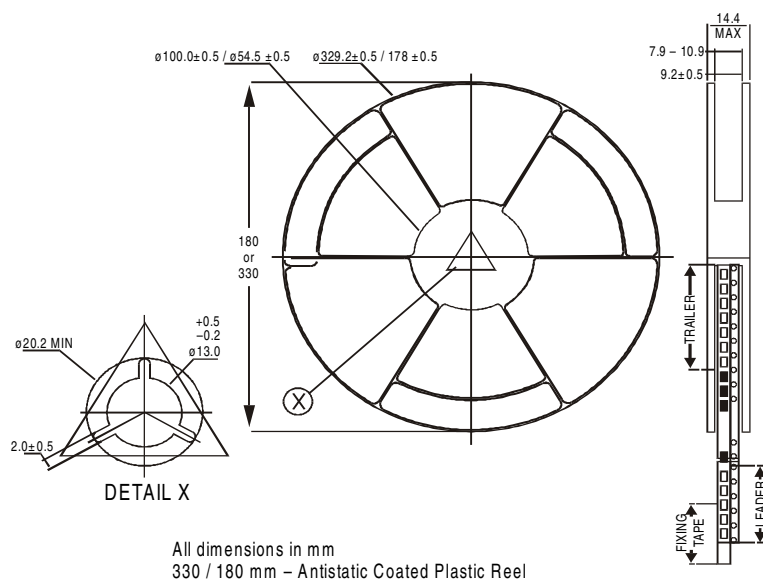
	CMBT9015	B	C	D
hFE	150-1000	100-300	200-600	400-1000
MARKING	15	15B	15C	15D

## SOT-23 Formed SMD Package



## SOT-23 Package Reel Information

### Reel specifications for W" Packing (13" reel)

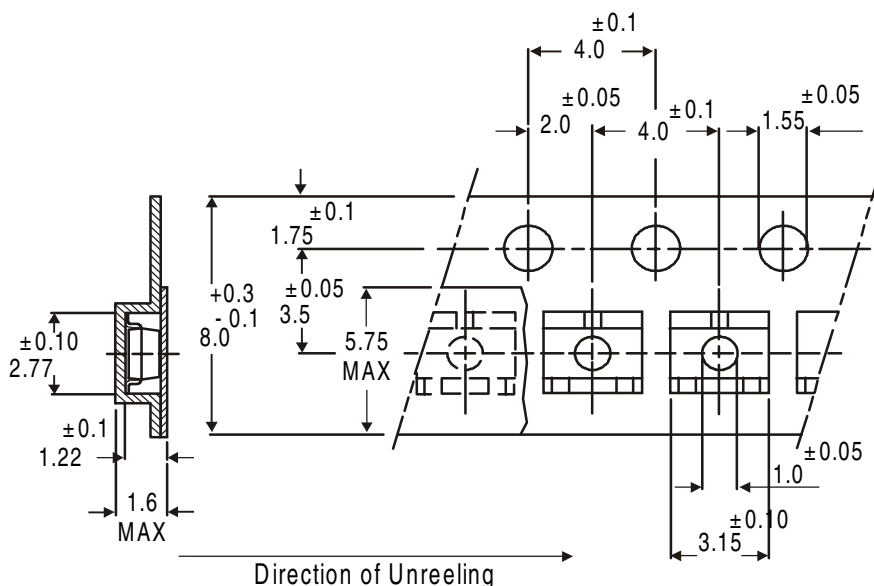


All dimensions in mm  
330 / 180 mm – Antistatic Coated Plastic Reel

#### NOTES:

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.

## Tape Specification for SOT-23 Surface Mount Device



All dimensions in mm

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

### **Disclaimer**

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