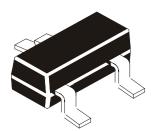


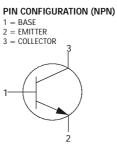
Continental Device India Limited

An ISO/TS16949 and ISO 9001 Certified Company



NPN SILICON PLANAR TRANSISTOR





MARKING: AS BELOW

CMBT 9013 SOT-23

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			-

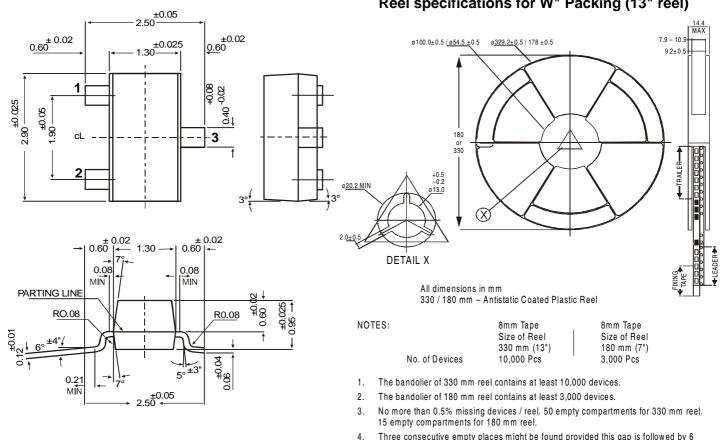
DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Collector -Base Voltage	VCBO	IC=100uA, IE=0	35	-	-	V
Collector -Emitter Voltage	VCEO	IC=1mA, IB=0	30	-	-	V
Emitter Base Voltage	VEBO	IE=100uA, IC=0	5.0	-	-	V
Collector Cut off Current	ICBO	VCB=25V, IE=0	-	-	100	nA
Emitter Cut off Current	IEBO	VEB=3V, 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,	140	-	-	MHz
		f=100MHz				
CLASSIFICATION		G/H/I				
hFE*		118-305				

MARKING

3GI

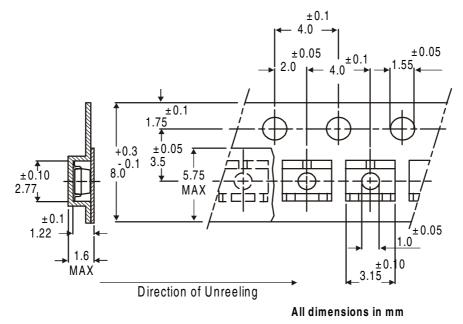
www.data SOT-23 Formed SMD Package

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



- 4. Three consecutive empty places might be found provided this gap is followed by 6 consecutive devices.
- 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

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" 9" x 9" x 9"	12.0K 51.0K	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

Disclaimer

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Data Sheet