

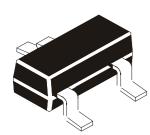
Continental Device India Limited

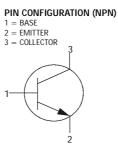
An IS/ISO 9002 and IECQ Certified Manufacturer



NPN EPITAXIAL PLANAR SILICON TRANSISTOR

CMBA847 SOT23



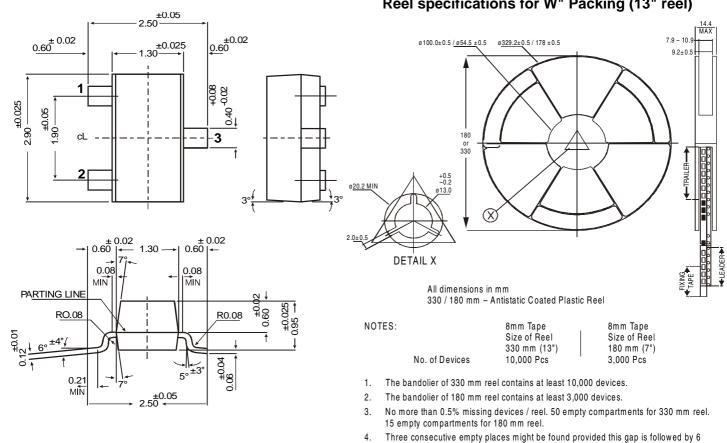


MARKING : AS BELOW

DESCRIPTION	SYMBOL		VALUE			UNIT					
Collector -Base Voltage	VCBO		50			V					
Collector -Emitter Voltage	VCEO		50			V					
Emitter Base Voltage	VEBO		6.0			V					
Collector Current	IC		200			mA					
Collector Power Dissipation	PC		150			mW					
Operating And Storage Junction	Tj, Tstg		-55 to +150	C		deg C					
Temperature Range											
ELECTRICAL CHARACTERISTICS (Ta= 25 deg C unless otherwise specified)											
DESCRIPTION	SYMBOL	TEST CONDITION	MIN	ΤΥΡ	MAX	UNIT					
Collector -Emitter Voltage	VCEO	IC=100uA, IB=0	50	-	-	V					
Collector Cut off Current	ICBO	VCB=50V, IE=0	-	-	100	nA					
Emitter Cut off Current	IEBO	VEB=6V, IC=0	-	-	100	nA					
DC Current Gain	hFE(1)	IC=1mA,VCE=6V	150	-	800						
	hFE(2)	IC=0.1mA,VCE=6V	50	-	-						
Collector Emitter Saturation Voltage	VCE(Sat)	IC=100mA,IB=10mA	-	-	0.30	V					
Base Emitter Saturation Voltage	VBE(Sat)	IC=100mA,IB=10mA	-	-	1.0	V					
Dynamic Characteristics											
Transition Frequency	ft	VCE=6V,IC=10mA,	-	200	-	MHz					
Collector Output Capacitance	Cob	VCB=6V, IE=0	-	3.5	-	pF					
		f=1MHz									
Noise Figure	NF	VCE=6V, IE=0.1mA	-	-	15	dB					
-		f=1kHz, Rg=2kohms									
CLASSIFICATION	E	F	G								
hFE(1)	150-300	250-500	400-800								
MARKING	NA	NB	NC								

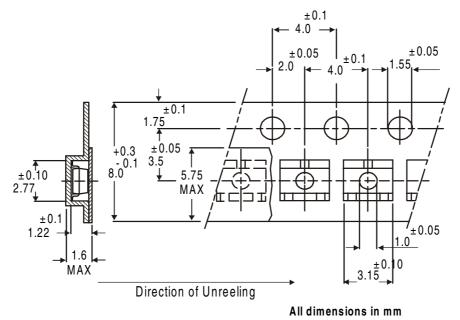
SOT-23 Formed SMD Package

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



- 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"		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

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 is 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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Data Sheet