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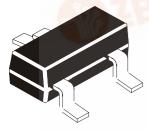
Continental Device India Limited

An ISO/TS16949 and ISO 9001 Certified Company

MANAGEMENT SERVICE

G

NPN SILICON PLANAR TRANSISTOR



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 | | | |

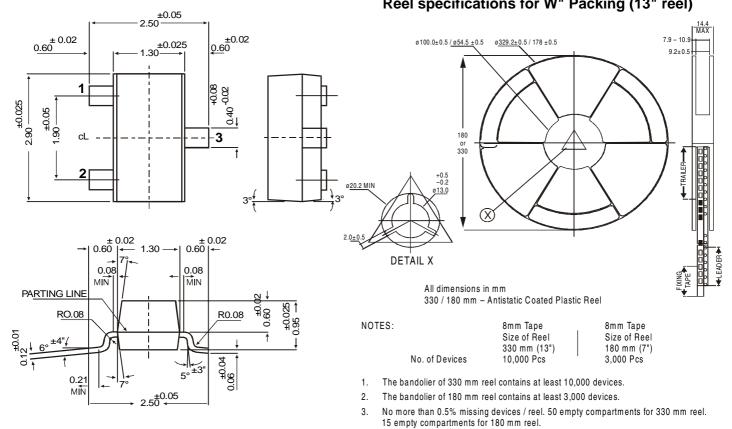
| ELECTRICAL CHARACTERISTICS (Ta=25 deg C Unless Otherwise Specified) | | | | | | | | |
|---|----------|------------------------------|------|--------|------|------|--|--|
| DESCRIPTION | SYMBOL | TEST CONDITION | MIN | TYP | MAX | UNIT | | |
| Collector -Base Voltage | VCBO | IC=100uA, IE=0 | 35 | - | - | V | | |
| Collector -Emitter Voltage | VCEO | IC=1mA, IB=0 | 30 | - | - | V | | |
| Emitter Base Voltage | VEBO | IE=100uA, IC=0 | 5.0 | | -+31 | V | | |
| Collector Cut off Current | ICBO | VCB=25V, IE=0 | 1.1 | 2-1 | 100 | nA | | |
| Emitter Cut off Current | IEBO | VEB=3V, IC=0 | 1000 | 2.00.0 | 500 | nA | | |
| DC Current Gain | hFE | IC=50mA,VCE=1V * | 118 | At an | 305 | | | |
| | | IC=300mA,VCE=1V | 40 | - | - | | | |
| Collector Emitter Saturation Voltage | VCE(Sat) | IC=150mA,IB=15mA | - | - | 0.20 | V | | |
| "p7 | | IC=300mA,IB=30mA | - | - | 0.60 | V | | |
| Base Emitter Saturation Voltage | VBE(Sat) | IC=150mA,IB=15mA | - | - | 1.0 | V | | |
| WWW W | | IC=300mA,IB=30mA | - | - | 1.20 | V | | |
| Dynamic Characteristics | | | | | | | | |
| Transition Frequency | ft | VCE=10V,IC=50mA, f=100MHz | 140 | 11 | 613 | MHz | | |

CLASSIFICATION hFE* MARKING G/H/I 118-305 3GI



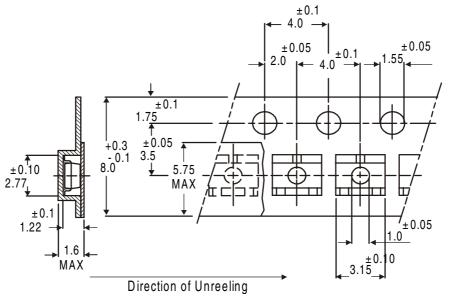
SOT-23 Formed SMD Package

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



- 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" 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 |

Customer 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 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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