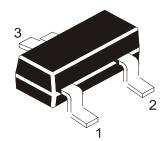
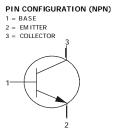




NPN SILICON PLANAR EPITAXIAL TRANSISTOR





CSD1306 (SAW)

SOT-23 Formed SMD Package

Marking CSD1306E=06

ABSOLUTE MAXIMUM RATINGS

| DESCRIPTION | SYMBOL | VALUE | UNITS |
|---|------------------|--------------|-------|
| Collector Base Voltage | V _{CBO} | 30 | V |
| Collector Emitter Voltage | V _{CEO} | 15 | V |
| Emitter Base Voltage | V _{EBO} | 5 | V |
| Collector Current Continuous | Ι _C | 700 | mA |
| Collector Current Peak | I _{CP} | 1 | А |
| Power Dissipation @ T _a =25 ^o C | P _D | 200 | mW |
| Operating and Storage Junction Temperature Range | $T_{j,}T_{stg}$ | - 55 to +150 | ٥C |

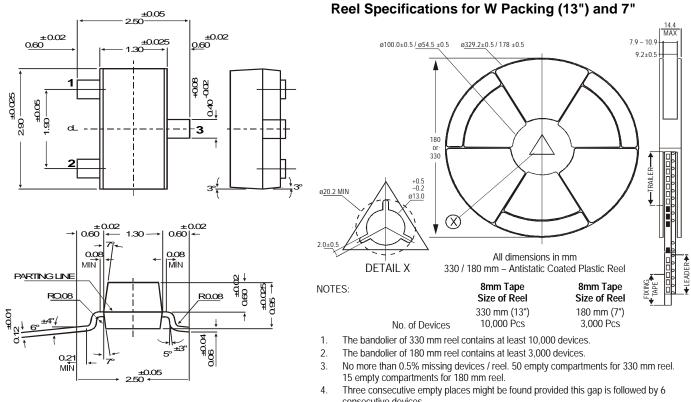
Electrical Characterstics (T_a=25°C unless specified otherwise)

| DESCRIPTION | SYMBOL | CONDITIONS | MIN | TYP | MAX | UNIT |
|---|-----------------------|---|-----|-----|------|------|
| Collector Base Voltage | V _{CBO} | I _C =10μΑ, I _E =0 | 30 | | | V |
| Collector Emitter Voltage | V _{CEO} | I _C =10mA, I _B =0 | 15 | | | V |
| Emitter Base Voltage | V _{EBO} | Ι _Ε =1μΑ, Ι _C =0 | 5 | | | V |
| Collector Cut off Current | I _{CBO} | V _{CB} =20V, I _E =0 | | | 1.0 | μA |
| Emitter Cut off Current | I _{EBO} | V_{EB} =5V, I _C =0 | | | 1.0 | μA |
| Base Emitter On Voltage | V _{BE (on)} | $V_{CE} = 1V$, $I_C = 150$ mA | | 1.0 | V | |
| Collector Emitter Saturation Voltage | V _{CE (sat)} | I _C =500mA, I _B =50mA | | | 0.5 | V |
| DC Current Gain | h _{FE} | V _{CE} =1V, I _C =150mA 25 | | | 1200 | |
| Transition Frequency | f _T | V _{CE} =1V, I _C =150mA, 250 | | | MHz | |
| Output Capacitance | C _{ob} | V _{CB} =10V, f=1MHz 10 | | 10 | pF | |
| Input Capacitance | C _{ib} | $V_{FB}=0.5V, I_{C}=0, f=1MHz$ | | | 100 | pF |

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SOT-23 Package Reel Information

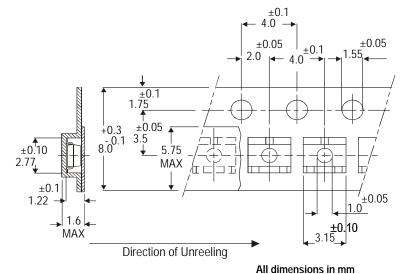
SOT-23 Formed SMD Package



SOT-23 Formed SMD Package

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 | STANDARDPACK | | 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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Continental Device India Limited

SOT-23 Formed SMD Package

Disclaimer

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