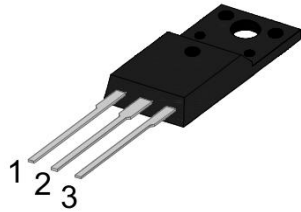


PNP SILICON POWER TRANSISTOR



1. BASE
2. COLLECTOR
3. EMITTER

CSA1930
TO-220F
PLASTIC PACKAGE
RoHS Compliant

FEATURES

Power Amplifier Applications
Driver Stage Amplifier Applications
Complimantrey to NPN Power Transistor CSC5171

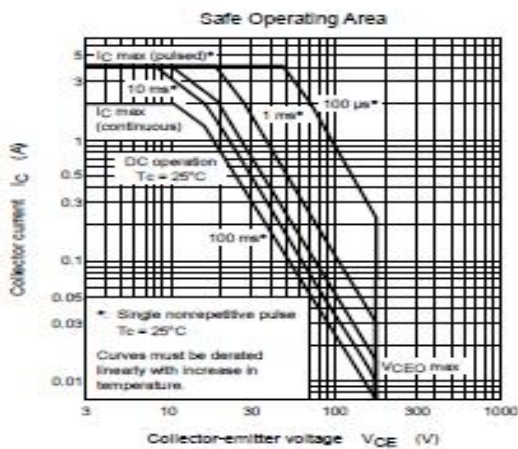
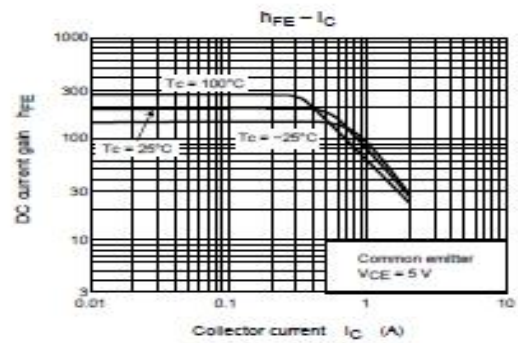
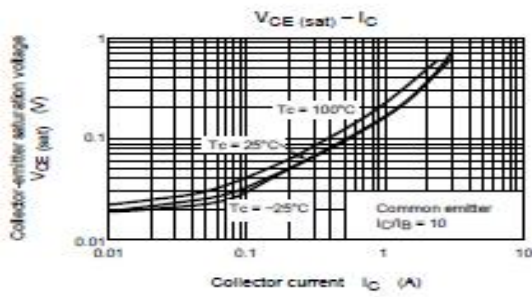
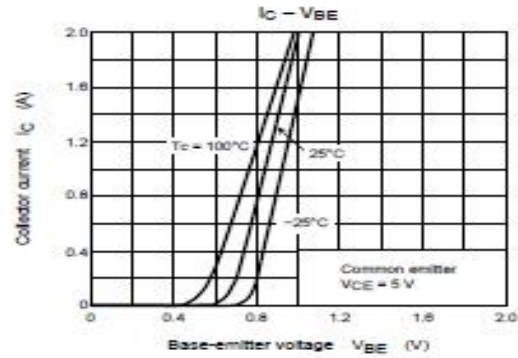
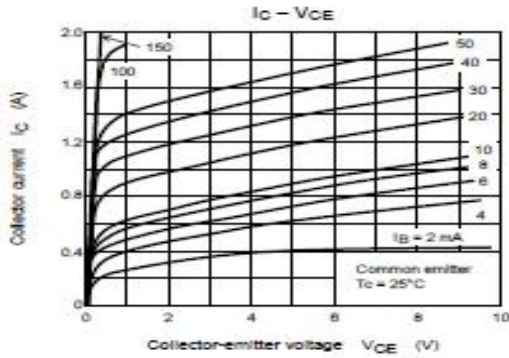
ABSOLUTE MAXIMUM RATINGS ($T_a=25^\circ\text{C}$)

| Parameter | Symbol | Value | Unit |
|-------------------------------------|-----------|------------|------------------|
| Collector-Base Voltage | V_{CBO} | -180 | V |
| Collector-Emitter Voltage | V_{CEO} | -180 | V |
| Emitter-Base Voltage | V_{EBO} | -5.0 | V |
| Collector Current | I_C | -2.0 | A |
| Base Current | I_B | -1.0 | A |
| Collector Power Dissipation | P_{tot} | 20 | W |
| Max. Operating Junction Temperature | T_j | 150 | $^\circ\text{C}$ |
| Storage Temperature | T_{stg} | -55 to 150 | $^\circ\text{C}$ |

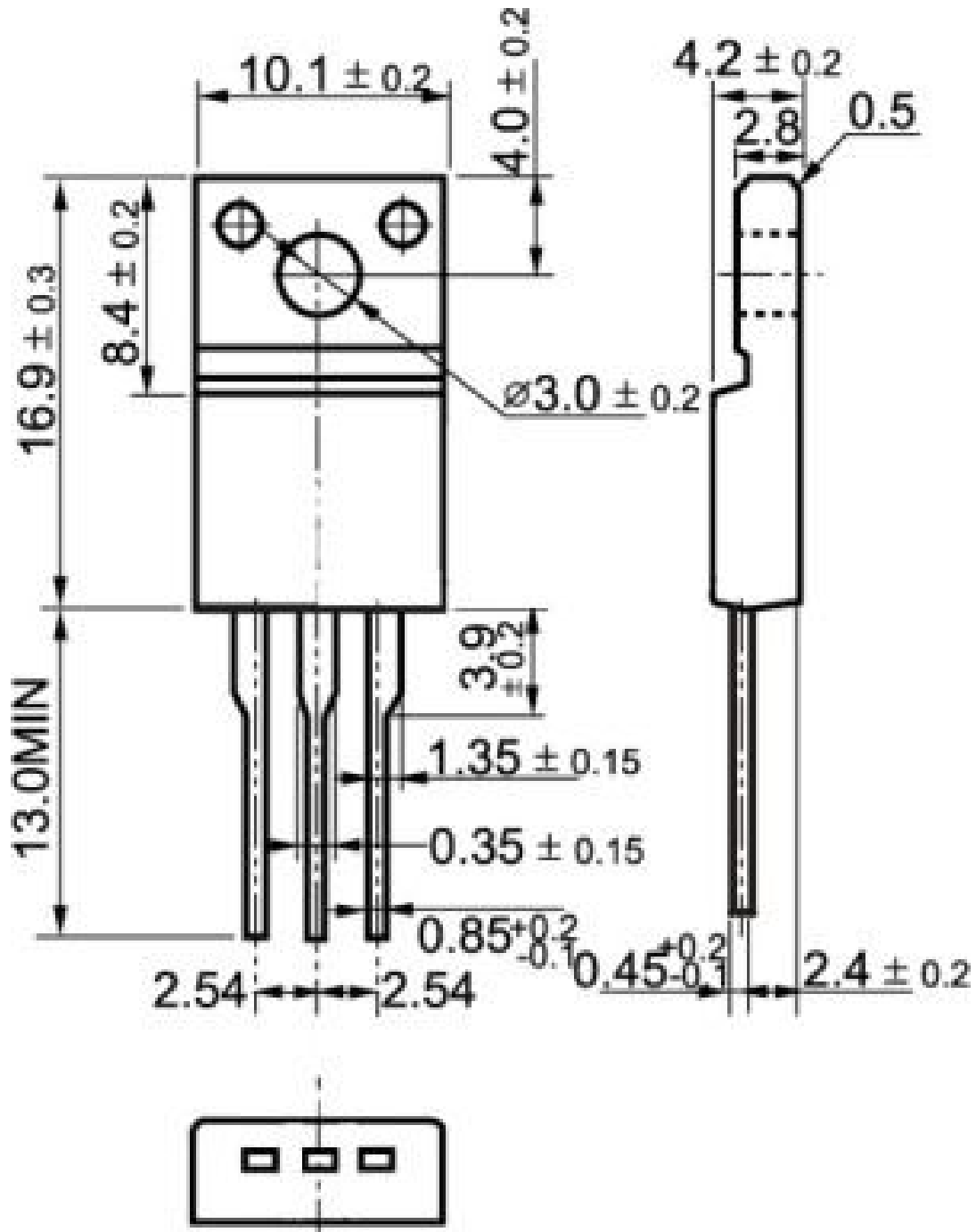
ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$)

| Parameter | Symbol | Test Conditions | Min. | Typ. | Max. | Unit |
|--------------------------------------|---------------|---|------|------|------|---------------|
| Collector Cut-off Current | I_{CBO} | $V_{CB}=-180\text{V}, I_E=0$ | | | -5.0 | μA |
| Emitter Cut-off Current | I_{EBO} | $V_{EB}=-5.0\text{V}, I_C=0$ | | | -5.0 | μA |
| Collector Emitter Sustaining Voltage | V_{CEO} | $I_C=-1.0\text{mA}, I_B=0$ | -180 | | | V |
| DC Current Gain | h_{FE} | $V_{CE}=-5.0\text{V}, I_C=-0.1\text{A}$ | 100 | | 320 | |
| | | $V_{CE}=-5.0\text{V}, I_C=-1.0\text{A}$ | 30 | | | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=-1.0\text{A}, I_B=-0.1\text{A}$ | | | -1.0 | V |
| Base Emitter Voltage | $V_{BE(on)}$ | $V_{CE}=-5.0\text{V}, I_C=-1.0\text{A}$ | | | -1.5 | V |

TYPICAL CHARACTERISTICS CURVES



TO-220F PACKAGE OUTLINE AND DIMENSIONS (in mm)





Continental Device India Pvt. Limited
An IATF 16949, ISO 9001 and ISO 14001 Certified Company



Customer Notes:

Component Disposal Instructions

1. CDIL Semiconductor Devices are RoHS compliant, customers are requested to please dispose as per prevailing Environmental Legislation of their Country
2. In Europe, please dispose as per EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

DISCLAIMER

The product information and the selection guides facilitate selection of the CDIL's 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 in the Data Sheet and 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 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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