

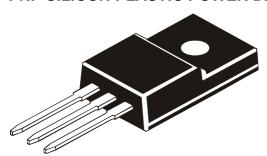
# Continental Device India Limited

An IS/ISO 9002 and IECQ Certified Manufacturer





### PNP SILICON PLASTIC POWER DARLINGTON TRANSISTOR



CFB1342 (9AW) TO-220FP

MARKING:- CFB

1342

Low Freq. Power Amp. Built in Damper Diode Complementry CFD1933

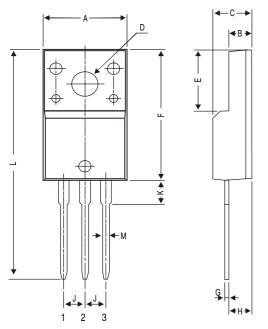
ABSOLUTE MAXIMUM RATINGS(Ta=25deg C)

| DESCRIPTION                               | SYMBOL | VALUE       | UNIT  |
|---|--------|-------------|-------|
| Collector -Base Voltage                   | VCBO   | 80          | V     |
| Collector -Emitter Voltage                | VCEO   | 80          | V     |
| Emitter Base Voltage                      | VEBO   | 7.0         | V     |
| Collector Current (DC)                    | IC     | 4.0         | Α     |
| Collector Current (Pulse*)                |        | 6.0         | Α     |
| Collector Power Dissipation @ Ta=25 deg C | PC     | 2.0         | W     |
| Collector Power Dissipation @ Tc=25 deg C |        | 60          | W     |
| Junction Temperature                      | Tj     | 150.00      | deg C |
| Storage Temperature Range                 | Tstg   | -55 to +150 | deg C |

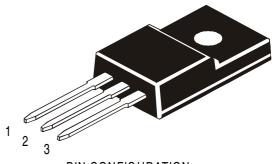
\*Single Pulse Pw=100ms

| ELECTRICAL CHARACTERISTICS (Ta=25 deg C Unless Specified) |          |                 |     |     |     |      |  |
|---|----------|-----------------|-----|-----|-----|------|--|
| DESCRIPTION   | SYMBOL   | TEST CONDITION  | MIN | TYP | MAX | UNIT |  |
| Collector Emitter Voltage                                 | VCEO     | IC=1mA, IB=0    | 80  | -   | -   | V    |  |
| Collector Base Voltage                                    | VCBO     | IC=50uA, IE=0   | 80  | -   | -   | V    |  |
| Collector Cut off Current                                 | ICBO     | VCB=80V, IE=0   | -   | -   | 100 | uA   |  |
| Emitter Cut off Current                                   | IEBO     | VEB=5V,IC=0     | -   | -   | 3.0 | mA   |  |
| Collector Emitter Saturation Voltage                      | VCE(Sat) | IC=2A,IB=4mA    | -   | -   | 1.5 | V    |  |
| DC Current Gain   | hFE      | IC=2A, VCE=3V   | 1.0 | -   | 10  | K    |  |
|   |          | IC=4A, VCE=3V   | 500 | -   | -   |      |  |
| <b>Dynamic Characteristics</b>                            |          |                 |     |     |     |      |  |
| Transition Frequency                                      | ft       | VCE=5V,IC=0.5A, | -   | 12  | -   | MHz  |  |
|   |          | f=1MHz          |     |     |     |      |  |
| Collector Output Capacitance                              | Cob      | VCB=10V, IE=0   | -   | 45  | -   | pF   |  |
|   |          | f=1MHz          |     |     |     |      |  |

## TO-220FP (Fully Isolated) Plastic Package



|                       | DIM | MIN   | MAX   |  |
|-----------------------|-----|-------|-------|--|
| All diminsions in mm. | Α   | 9.96  | 10.36 |  |
|                       | В   | 2.60  | 3.00  |  |
|                       | С   | 4.50  | 4.90  |  |
|                       | D   | 3.10  | 3.30  |  |
|                       | E   | 7.90  | 8.20  |  |
|                       | F   | 16.87 | 17.27 |  |
|                       | G   | 0.45  | 0.50  |  |
|                       | Н   | 2.56  | 2.96  |  |
|                       | J   | 2.34  | 2.74  |  |
|                       | K   | _     | 3.08  |  |
|                       | L   | _     | 30.05 |  |
|                       | М   | _     | 0.80  |  |
|                       |     |       |       |  |



PIN CONFIGURATION

- 1. BASE
- 2. COLLECTOR
- 3. EMITTER

**Packing Detail** 

| PACKAGE     | STANDARD PACK                  |                | INNER CARTON BOX                        |     | OUTER CARTON BOX                     |                |                  |
|-------------|--------------------------------|----------------|---|-----|--------------------------------------|----------------|------------------|
|             | Details                        | Net Weight/Qty | Size                                    | Qty | Size                                 | Qty            | Gr Wt            |
| T0-220 / FP | 200 pcs/polybag<br>50 pcs/tube |                | 3" x 7.5" x 7.5"<br>3.5" x 3.7" x 21.5" |     | 17" x 15" x 13.5"<br>19" x 19" x 19" | 16.0K<br>10.0K | 36 kgs<br>29 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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#### Continental Device India Limited

C-120 Naraina Industrial Area, New Delhi 110 028, India.
Telephone + 91-11-579 6150 Fax + 91-11-579 9569, 579 5290
e-mail sales@cdil.com www.cdil.com