

BD136 BD138 BD140

SILICON PNP EPITAXIAL TYPE (PCT PROCESS)

MEDIUM POWER AMPLIFIER APPLICATIONS.

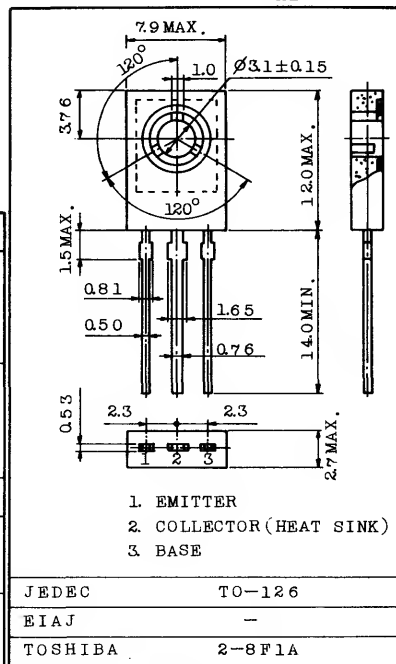
FEATURES:

- Designed for Complementary Use with BD135, BD137 and BD139

MAXIMUM RATINGS (Ta=25°C)

| CHARACTERISTIC | | SYMBOL | RATING | UNIT |
|-----------------------------|----------------------|------------------|-----------|------|
| Collector-Base Voltage | BD136 | V _{CB0} | -45 | V |
| | BD138 | | -60 | |
| | BD140 | | -80 | |
| Collector-Emitter Voltage | BD136 | V _{CEO} | -45 | V |
| | BD138 | | -60 | |
| | BD140 | | -80 | |
| Emitter-Base Voltage | | V _{EB0} | -5 | V |
| Collector Current | DC | I _C | -0.5 | A |
| | Peak | I _{CM} | -1.5 | |
| Collector Power Dissipation | Ta=25°C | P _C | 1 | W |
| | T _c ≤60°C | | 6.5 | |
| Junction Temperature | | T _j | 150 | °C |
| Storage Temperature Range | | T _{stg} | -55 ~ 150 | °C |

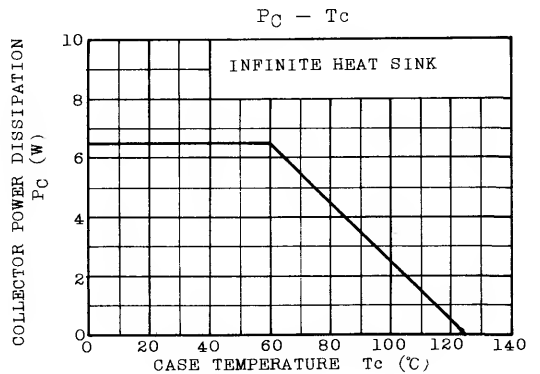
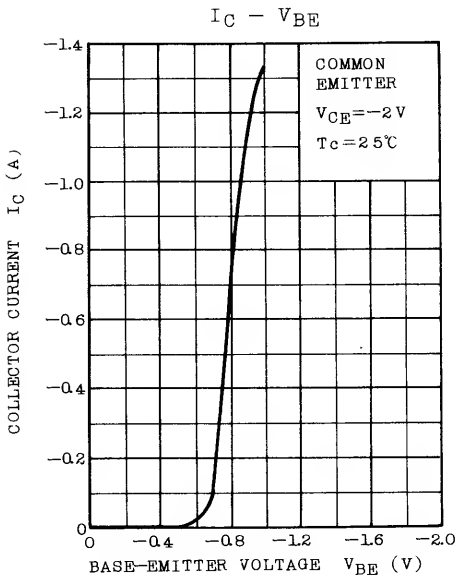
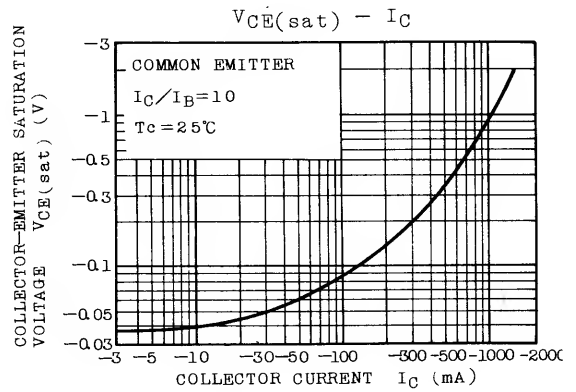
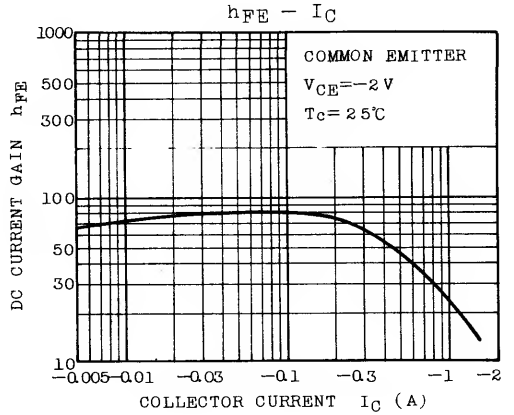
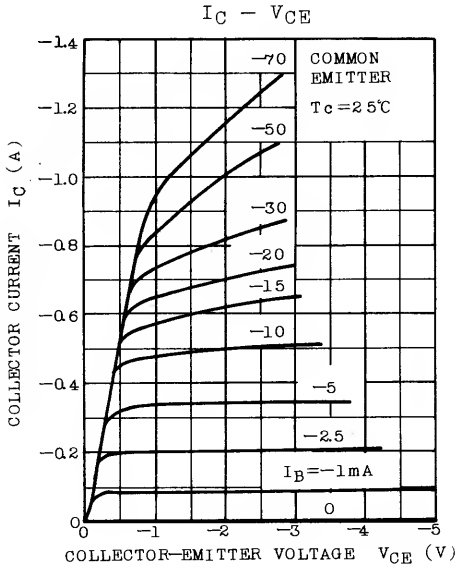
Unit in mm



Weight : 0.72g

ELECTRICAL CHARACTERISTICS (Ta=25°C)

| CHARACTERISTIC | | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|-------|----------------------|--|--|------|------|------|
| Collector Cut-off Current | | I _{CBO} | V _{CB} =-30V, I _E =0 | - | - | -0.1 | μA |
| | | | V _{CB} =-30V, I _E =0, Ta=125°C | - | - | -10 | |
| Emitter Cut-off Current | | I _{EBO} | V _{EB} =-5V, I _C =0 | - | - | -10 | μA |
| Collector-Emitter Breakdown Voltage | BD136 | V(BR)CEO | I _C =-30mA, I _B =0 | -45 | - | - | V |
| | BD138 | | | -60 | - | - | |
| | BD140 | | | -80 | - | - | |
| DC Current Gain | | | h _{FE} (1) | V _{CE} =-2V, I _C =-5mA | 25 | - | - |
| | | | h _{FE} (2) | V _{CE} =-2V, I _C =-150mA | 40 | - | 250 |
| | | | h _{FE} (3) | V _{CE} =-2V, I _C =-500mA | 25 | - | - |
| Collector-Emitter Saturation Voltage | | V _{CE(sat)} | I _C =-500mA, I _B =-50mA | - | - | -0.5 | V |
| Base-Emitter Voltage | | V _{BE} | V _{CE} =-2V, I _C =-500mA | - | - | -1.0 | V |
| Transition Frequency | | f _T | V _{CE} =-2V, I _C =-50mA | - | 100 | - | MHz |



BD136 • BD138 • BD140

