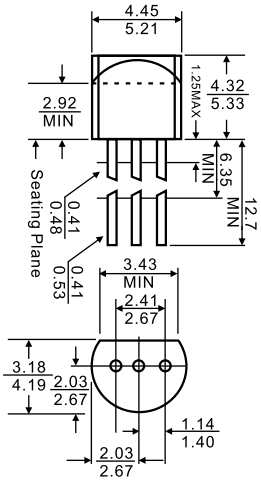
# 2SC3279

**TO-92 Bipolar Transistors(NPN)**


1. EMITTER
2. COLLECTOR
3. BASE

**TO-92**




**Dimensions in inches and (millimeters)**

## Features

- ✧ High DC current gain and excellent $h_{FE}$ linearity
- ✧ Low saturation voltage

### MAXIMUM RATINGS ($T_A$=25℃ unless otherwise noted)

| Symbol | Parameter | Value | Units |
|---|---|---|---|
| $V_{CBO}$ | Collector-Base Voltage | 30 | V |
| $V_{CEO}$ | Collector-Emitter Voltage | 10 | V |
| $V_{EBO}$ | Emitter-Base Voltage | 6 | V |
| $I_C$ | Collector Current –Continuous | 2 | A |
| $P_C$ | Collector Power Dissipation | 750 | mW |
| $T_J$ | Junction Temperature | 150 | ℃ |
| $T_{stg}$ | Storage Temperature | -55-150 | ℃ |

### ELECTRICAL CHARACTERISTICS (Tamb=25℃ unless otherwise specified)

| Parameter | Symbol | Test conditions | MIN | TYP | MAX | UNIT |
|---|---|---|---|---|---|---|
| **Collector-base breakdown voltage** | $V_{(BR)CBO}$ | $I_C$=1mA , $I_E$=0 | 30 | | | V |
| **Collector-emitter breakdown voltage** | $V_{(BR)CEO}$ | $I_C$=10mA, $I_B$=0 | 10 | | | V |
| **Emitter-base breakdown voltage** | $V_{(BR)EBO}$ | $I_E$=1mA, $I_C$=0 | 6 | | | V |
| **Collector cut-off current** | $I_{CBO}$ | $V_{CB}$=30 V , $I_E$=0 | | | 0.1 | μA |
| **Emitter cut-off current** | $I_{EBO}$ | $V_{EB}$=6 V , $I_C$=0 | | | 0.1 | μA |
| **DC current gain** | $h_{FE}$ | $V_{CE}$=1V, $I_C$=0.5A | 140 | | 600 | |
| **Collector-emitter saturation voltage** | $V_{CE(sat)}$ | $I_C$=2A, $I_B$= 100mA | | | 0.82 | V |
| **Base-emitter voltage** | $V_{BE}$ | $I_C$= 2A, $V_{CE}$=1V | | | 1.5 | V |
| **Transition frequency** | $f_T$ | $V_{CE}$=1V, $I_C$= 0.5A | | 150 | | MHz |
| **Collector output capacitance** | $C_{ob}$ | $V_{CB}$=10V,$I_E$=0,f=1MHz | | 27 | | pF |

### CLASSIFICATION OF $h_{FE}$

| **Rank** | L | M | N | P |
|---|---|---|---|---|
| **Range** | 140-240 | 200-330 | 300-450 | 420-600 |

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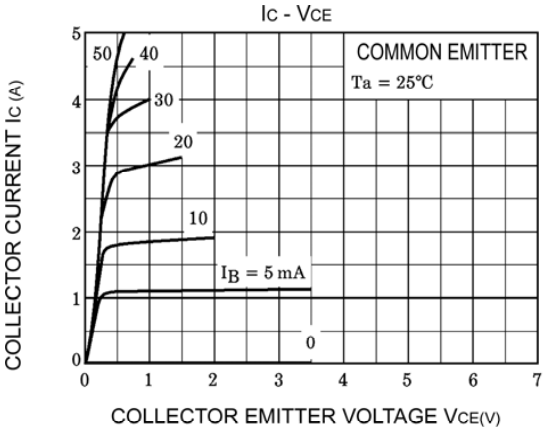
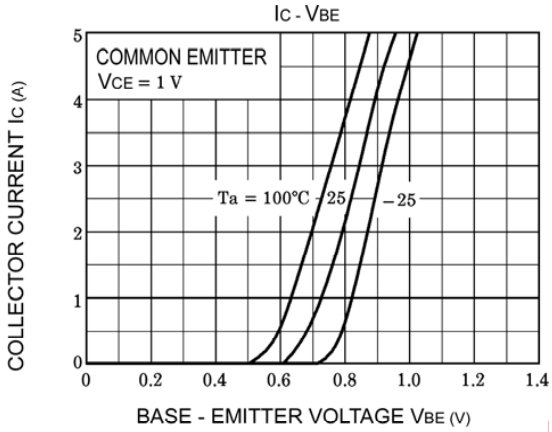
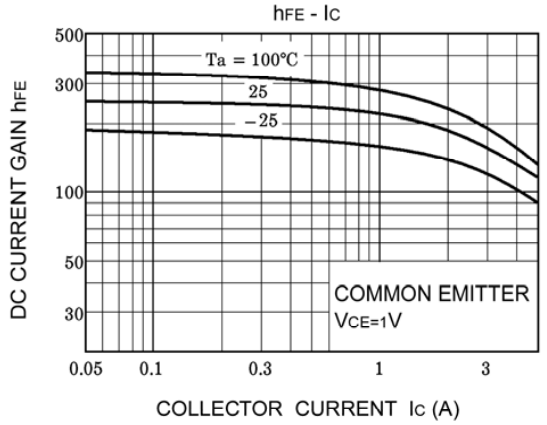
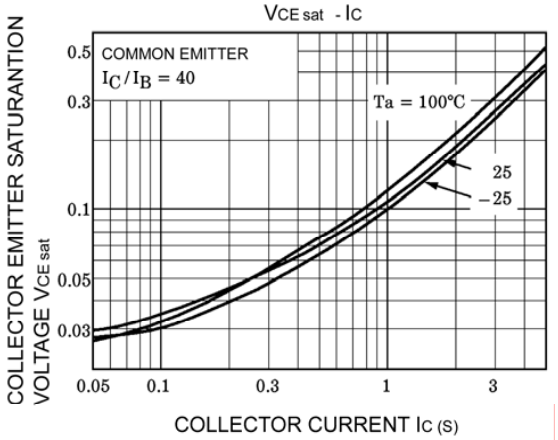
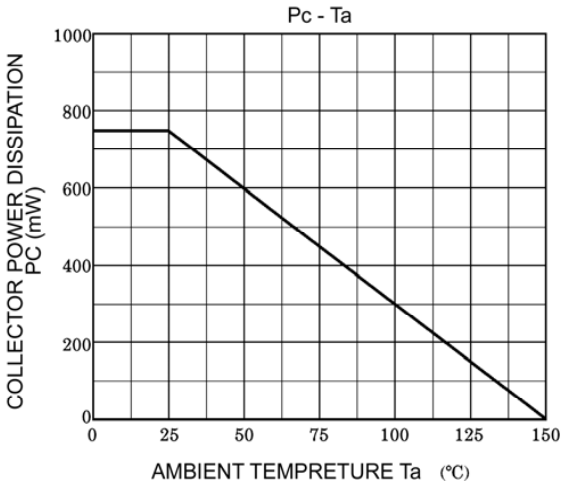
## Typical Characteristics




| Package | Box | Box Size(mm) | Carton | Carton Size(mm) |
|---|---|---|---|---|
| TO-92 | 2000pcs | 333×162×43 | 20,000pcs | 350×340×250 |