Micro Commercial Components
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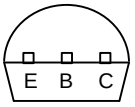
# 2SC2216

## NPN Silicon Plastic-Encapsulate Transistor

## Features

- Capable of 300mWatts of Power Dissipation.
- Collector-current 50mA
- Collector-base Voltage 50V
- Operating and storage junction temperature range: -55°C to +150°C

Pin Configuration
Bottom View

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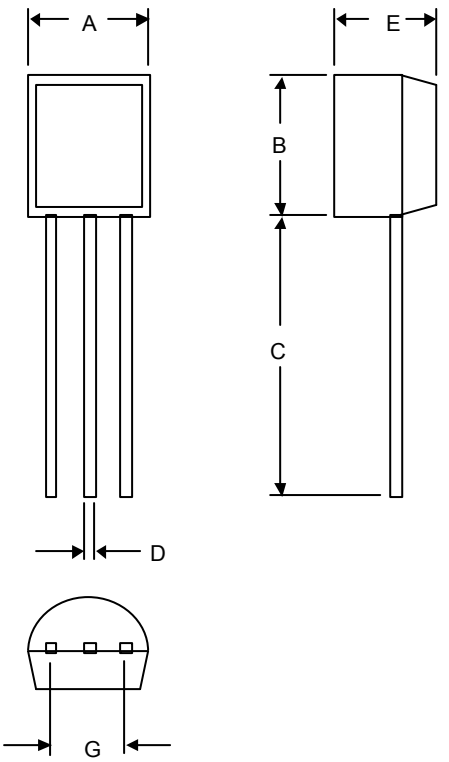


### Electrical Characteristics @ 25°C Unless Otherwise Specified

| Symbol | Parameter | Min | Max | Units |
|---|---|---|---|---|
| **OFF CHARACTERISTICS** | | | | |
| $V_{(BR)CEO}$ | Collector-Emitter Breakdown Voltage ($I_C$=10mAdc, $I_B$=0) | 45 | --- | Vdc |
| $V_{(BR)CBO}$ | Collector-Base Breakdown Voltage ($I_C$=100uAdc, $I_E$=0) | 50 | --- | Vdc |
| $V_{(BR)EBO}$ | Emitter-Base Breakdown Voltage ($I_E$=100uAdc, $I_C$=0) | 4.0 | --- | Adc |
| $I_{CBO}$ | Collector Cutoff Current ($V_{CB}$=50Vdc, $I_E$=0) | --- | 0.1 | uAdc |
| $I_{EBO}$ | Emitter Cutoff Current ($V_{EB}$=4.0Vdc, $I_C$=0) | --- | 0.1 | uAdc |
| **ON CHARACTERISTICS** | | | | |
| $h_{FE}$ | DC Current Gain ($I_C$=12.5mAdc, $V_{CE}$=12.5Vdc) | 40 | 140 | --- |
| $V_{CE(sat)}$ | Collector-Emitter Saturation Voltage ($I_C$=15mAdc, $I_B$=1.5mAdc) | --- | 0.2 | Vdc |
| $V_{(BE)sat}$ | Base-Emitter Saturation Voltage ($I_C$=15mAdc, $I_B$=1.5mAdc) | --- | 1.5 | Vdc |
| fT | Transition Frequency ($V_{CE}$=12.5Vdc, $I_C$=12.5mAdc, f=100MHz) | 300 | --- | MHz |

| DIMENSIONS | | | | | |
|---|---|---|---|---|---|
| | INCHES | | MM | | |
| DIM | MIN | MAX | MIN | MAX | NOTE |
| A | .175 | .185 | 4.45 | 4.70 | |
| B | .175 | .185 | 4.46 | 4.70 | |
| C | .500 | --- | 12.7 | --- | |
| D | .016 | .020 | 0.41 | 0.63 | |
| E | .135 | .145 | 3.43 | 3.68 | |
| G | .095 | .105 | 2.42 | 2.67 | |