



Micro Commercial Components
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2SC2371

NPN Silicon Power Transistors

Features

- With TO-126 package
- Video applications

Maximum Ratings

| Symbol | Rating | Rating | Unit |
|-----------|-----------------------------|-------------|-------------|
| V_{CEO} | Collector-Emitter Voltage | 300 | V |
| V_{CBO} | Collector-Base Voltage | 300 | V |
| V_{EBO} | Emitter-Base Voltage | 7.0 | V |
| I_C | Collector Current | 0.1 | A |
| P_C | Collector power dissipation | 10 | W |
| T_J | Junction Temperature | -55 to +150 | $^{\circ}C$ |
| T_{STG} | Storage Temperature | -55 to +150 | $^{\circ}C$ |

Electrical Characteristics @ 25 $^{\circ}C$ Unless Otherwise Specified

| Symbol | Parameter | Min | Max | Units |
|--------|-----------|-----|-----|-------|
|--------|-----------|-----|-----|-------|

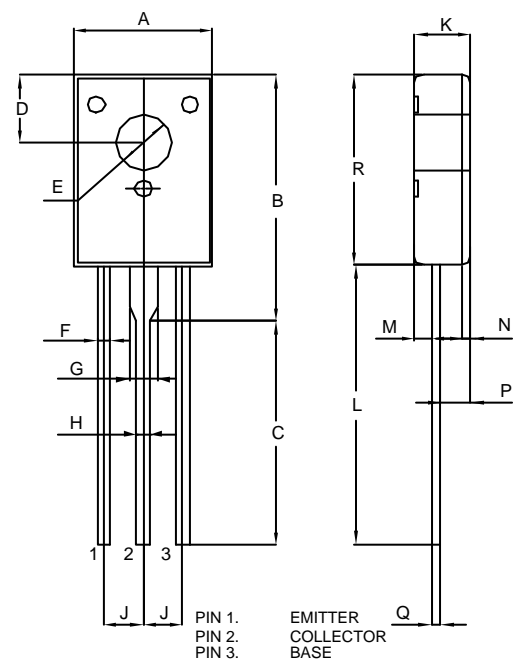
OFF CHARACTERISTICS

| | | | | |
|---------------|--|-----|-----|---------|
| $V_{(BR)CEO}$ | Collector-Emitter Breakdown Voltage ($I_C=1.0mA$, $I_B=0$) | 300 | --- | Vdc |
| I_{CBO} | Collector-Base Cutoff Current ($V_{CB}=200Vdc, I_E=0$) | --- | 0.1 | μA |
| I_{EBO} | Emitter-Base Cutoff Current ($V_{EB}=7.0Vdc, I_C=0$) | --- | 0.1 | mA |

ON CHARACTERISTICS

| | | | | |
|---------------|---|-----|-----|-----|
| h_{FE} | Forward Current Transfer ratio ($I_C=10mA, V_{CE}=10Vdc$) | 40 | 250 | --- |
| $V_{CE(sat)}$ | Collector-Emitter Saturation Voltage ($I_C=30mA, I_B=3.0mA$) | --- | 1.5 | Vdc |

TO-126



DIMENSIONS

| DIM | INCHES | | MM | | NOTE |
|-----|--------|-------|-------|-------|------|
| | MIN | MAX | MIN | MAX | |
| A | 0.30 | 0.33 | 7.70 | 8.30 | |
| B | | 0.56 | | 14.20 | |
| C | 0.50 | 0.53 | 12.76 | 13.36 | |
| D | 0.15 | 0.16 | 3.80 | 4.0 | |
| E | 0.12 | 0.13 | 3.10 | 3.30 | |
| F | 0.025 | 0.033 | 0.65 | 0.85 | |
| G | 0.06 | 0.07 | 1.50 | 1.70 | |
| H | 0.025 | 0.033 | 0.65 | 0.85 | |
| J | 0.08 | 0.10 | 2.08 | 2.48 | |
| K | 0.12 | 0.14 | 3.05 | 3.45 | |
| L | 0.63 | 0.64 | 15.90 | 16.30 | |
| M | | 0.04 | | 1.0 | |
| N | | 0.02 | | 0.5 | |
| P | 0.06 | 0.08 | 1.55 | 1.95 | |
| Q | 0.018 | 0.023 | 0.45 | 0.60 | |
| R | 0.43 | 0.44 | 10.80 | 11.20 | |

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