

BD244 – A – B – C

SILICON PNP POWER TRANSISTORS

The BD244 series are PNP power transistors in a TO-220 envelope. They are intended for use in medium power linear and switching applications. The complementary is BD243, A, B, C Compliance to RoHS.

ABSOLUTE MAXIMUM RATINGS

| Symbol | Ratings | | Value | Unit |
|------------------|--|-------------------------------|-------------|------|
| V _{CEO} | Collector-Emitter Voltage (I _B = 0mA) | BD244 | -45 | |
| | | BD244A | -60 | V |
| | | BD244B | -80 | V |
| | | BD244C | -100 | |
| V _{сво} | | BD244 | -45 | |
| | Collector-Base Voltage (I _E = 0mA) | BD244A | -60 | N/ |
| | | BD244B | -80 | V |
| | | BD244C | -100 | |
| V _{EBO} | Emitter-Base Voltage(I _c = 0mA) | | -5.0 | V |
| I _c | Collector Current | | -6 | ^ |
| I _{CM} | Collector Current-Peak | | -10 | A |
| I _B | Base Current | | -2 | А |
| Ρτ | Collector Power Dissipation | $T_{\rm C} = 25^{\circ}$ C | 65 | W |
| TJ | Junction Temperature | | 150 | °C |
| Ts | Storage Temperature | | -65 to +150 | |

THERMAL CHARACTERISTICS

| Symbol | Ratings | Value | Unit |
|--------------------------|---|-------|--------|
| R _{thJC} | Junction to Case Thermal Resistance | 1.92 | °C / W |
| R _{thJA} | Junction to free air Thermal Resistance | 62.5 | °C / W |



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ELECTRICAL CHARACTERISTICS

TC=25°C unless otherwise noted

| Symbol | Ratings | Test Condition | (s) | Min | Тур | Max | Unit |
|----------------------|---|--|--------|------|-----|------|------|
| I _{CES} | Collector- Emitter Cut- off Current | V_{CE} = -45 V , V_{BE} = 0 | BD244 | | - | -0.4 | mA |
| | | V_{CE} = -60 V , V_{BE} = 0 | BD244A | | | | |
| | | $V_{CE} = -80 \text{ V}$, $V_{BE} = 0$ | BD244B | | | | |
| | | V _{CE} = -100 V , V _{BE} = 0 | BD244C | | | | |
| I _{CEO} | Collector Cut-off Current | $V_{CE} = -30 \text{ V}$, $I_B = 0$ | BD244 | | | -0.7 | mA |
| | | | BD244A | | | | |
| | | $V_{CE} = -60 \text{ V}$, $I_B = 0$ | BD244B | | - | | |
| | | | BD244C | | | | |
| I _{EBO} | Emitter Cut-off Current | $V_{EB} = -5 V$, $I_{C} = 0$ | | - | - | -1 | mA |
| | Collector- Emitter | I _C = -30 mA, I _B = 0 | BD244 | -45 | - | - | V |
| V _{CEO} | | | BD244A | -60 | - | - | |
| ▼ CEO | Breakdown Voltage (*) | $1_{\rm C} = -30$ mA, $1_{\rm B} = 0$ | BD244B | -80 | - | - | |
| | | | BD244C | -100 | - | - | |
| h _{FE} | DC Current Gain (*) | V_{CE} = -4 V, I_{C} = -0.3 A | | 30 | - | - | |
| | | V_{CE} = -4 V, I _C = -3 A | | 15 | - | - | |
| V _{CE(SAT)} | Collector-Emitter saturation Voltage (*) | I _C = -6 A, I _B = -1 A | | - | - | -1.5 | V |
| V _{BE} | Base-Emitter Voltage(*) | V_{CE} = -4 V, I _C = -6 A | | - | - | -2 | V |

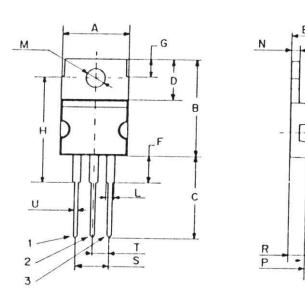


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MECHANICAL DATA CASE TO-220

| DIMENSIONS (mm) | | | | |
|-----------------------|-------|-------|--|--|
| | Min. | Max. | | |
| A | 9,90 | 10,30 | | |
| B C D E F | 15,65 | 15,90 | | |
| С | 13,20 | 13,40 | | |
| D | 6,45 | 6,65 | | |
| E | 4,30 | 4,50 | | |
| F | 2,70 | 3,15 | | |
| G H L M N | 2,60 | 3,00 | | |
| Н | 15,75 | 17.15 | | |
| L | 1,15 | 1,40 | | |
| М | 3,50 | 3,70 | | |
| N | - | 1,37 | | |
| Р | 0,46 | 0,55 | | |
| R S T | 2,50 | 2,70 | | |
| S | 4,98 | 5,08 | | |
| Т | 2.49 | 2.54 | | |
| U | 0,70 | 0,90 | | |

| Pin 1 : | Base |
|---------|-----------|
| Pin 2 : | Collector |
| Pin 3 : | Emitter |
| Package | Collector |



Revised November 2015

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