

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

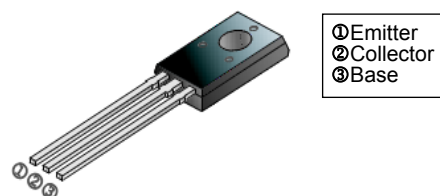
FEATURES

- Low frequency power amplifier
- High Current
- Low Speed Switching

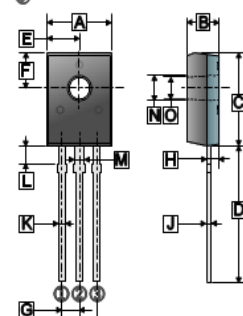
CLASSIFICATION OF h_{FE}

| Product-Rank | B772C-R | B772C-O | B772C-Y | B772C-GR |
|--------------|---------|---------|---------|----------|
| Range | 60~120 | 100~200 | 160~320 | 200~400 |

TO-126C



① Emitter
② Collector
③ Base



| REF. | Millimeter | | REF. | Millimeter | |
|------|------------|-------|------|------------|------|
| | Min. | Max. | | Min. | Max. |
| A | 7.80 | 8.20 | H | 0.80 | 1.60 |
| B | 3.00 | 3.40 | J | 0.45 | 0.60 |
| C | 10.80 | 11.20 | K | 0.66 | 0.86 |
| D | 15.30 | 15.70 | L | 1.30 | 1.50 |
| E | 3.90 | 4.10 | M | 1.17 | 1.37 |
| F | 4.04 | 4.24 | N | 3.10 | 3.30 |
| G | 2.28 TYP. | | O | 2.70 | 2.90 |

ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ unless otherwise specified)

| Parameter | Symbol | Rating | Unit |
|--------------------------------|----------------|---------|------------------|
| Collector to Base Voltage | V_{CB0} | -40 | V |
| Collector to Emitter Voltage | V_{CE0} | -30 | V |
| Emitter to Base Voltage | V_{EB0} | -6 | V |
| Collector Current - Continuous | I_C | -3 | A |
| Collector Power Dissipation | P_C | 1.25 | W |
| Junction, Storage Temperature | T_J, T_{STG} | -55~150 | $^\circ\text{C}$ |

ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise specified)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Test Conditions |
|---|---------------|------|------|------|---------------|--|
| Collector to Base Breakdown Voltage | $V_{(BR)CB0}$ | -40 | - | - | V | $I_C = -100\mu\text{A}, I_E = 0$ |
| Collector to Emitter Breakdown Voltage | $V_{(BR)CE0}$ | -30 | - | - | V | $I_C = -10\text{mA}, I_B = 0$ |
| Emitter to Base Breakdown Voltage | $V_{(BR)EB0}$ | -6 | - | - | V | $I_E = -100\mu\text{A}, I_C = 0$ |
| Collector Cut - Off Current | I_{CB0} | - | - | -1 | μA | $V_{CB} = -40\text{V}, I_E = 0$ |
| Collector Cut - Off Current | I_{CE0} | - | - | -10 | μA | $V_{CE} = -30\text{V}, I_B = 0$ |
| Emitter Cut - Off Current | I_{EB0} | - | - | -1 | μA | $V_{EB} = -6\text{V}, I_C = 0$ |
| DC Current Gain | h_{FE} | 60 | - | 400 | | $V_{CE} = -2\text{V}, I_C = -1\text{A}$ |
| | | 32 | - | - | | $V_{CE} = -2\text{V}, I_C = -100\text{mA}$ |
| Collector to Emitter Saturation Voltage | $V_{CE(sat)}$ | - | - | -0.5 | V | $I_C = -2\text{A}, I_B = -200\text{mA}$ |
| Base-emitter saturation voltage | $V_{BE(sat)}$ | - | - | -1.5 | V | $I_C = -2\text{A}, I_B = -200\text{mA}$ |
| Transition Frequency | f_T | 50 | - | - | MHz | $V_{CE} = -5\text{V}, I_C = -100\text{mA}$ $f = 10\text{MHz}$ |

CHARACTERISTIC CURVES

