

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

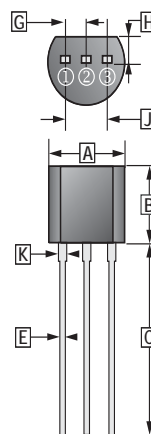
FEATURES

- General Purpose Switching and Amplification

TO-92

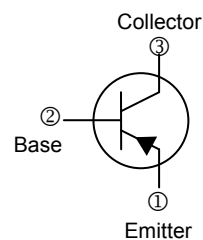
CLASSIFICATION OF h_{FE}

| | | | |
|---------------------|-----------|-----------|-----------|
| Product-Rank | 2SB1426-P | 2SB1426-Q | 2SB1426-R |
| Range | 82~180 | 120~270 | 180~390 |



① Emitter
② Base
③ Collector

| REF. | Millimeter | |
|------|------------|------|
| | Min. | Max. |
| A | 4.40 | 4.70 |
| B | 4.30 | 4.70 |
| C | 12.70 | - |
| D | 3.30 | 3.81 |
| E | 0.36 | 0.56 |
| F | 0.36 | 0.51 |
| G | 1.27 TYP. | |
| H | 1.10 | - |
| J | 2.42 | 2.66 |
| K | 0.36 | 0.76 |



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

| Parameter | Symbol | Rating | Unit |
|---|-----------------|--------------|-----------------------------|
| Collector to Base Voltage | V_{CB0} | -20 | V |
| Collector to Emitter Voltage | V_{CEO} | -20 | V |
| Emitter to Base Voltage | V_{EBO} | -6 | V |
| Collector Current - Continuous | I_C | -3 | A |
| Collector Power Dissipation | P_C | 0.75 | W |
| Thermal Resistance From Junction to Ambient | $R_{\theta JA}$ | 166 | $^\circ\text{C} / \text{W}$ |
| Junction, Storage Temperature | T_J, T_{STG} | 150, -55~150 | $^\circ\text{C}$ |

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

| Parameter | Symbol | Min | Typ | Max | Unit | Test condition |
|---|---------------|-----|-----|------|---------------|--|
| Collector to Base Breakdown Voltage | $V_{(BR)CB0}$ | -20 | - | - | V | $I_C = -0.05\text{mA}, I_E = 0$ |
| Collector to Emitter Breakdown Voltage | $V_{(BR)CEO}$ | -20 | - | - | V | $I_C = -1\text{mA}, I_B = 0$ |
| Emitter to Base Breakdown Voltage | $V_{(BR)EBO}$ | -6 | - | - | V | $I_E = -0.05\text{mA}, I_C = 0$ |
| Collector Cut-Off Current | I_{CBO} | - | - | -0.1 | μA | $V_{CB} = -20\text{V}, I_E = 0$ |
| Emitter Cut-Off Current | I_{EBO} | - | - | -0.1 | μA | $V_{EB} = -5\text{V}, I_C = 0$ |
| DC Current Gain | h_{FE} | 82 | - | 390 | | $V_{CE} = -2\text{V}, I_C = -0.1\text{A}$ |
| Collector to Emitter Saturation Voltage | $V_{CE(sat)}$ | - | - | -0.5 | V | $I_C = -2\text{A}, I_B = -0.1\text{A}$ |
| Collector-Base Capacitance | C_{cb} | - | 35 | - | pF | $V_{CB} = -10\text{V}, I_E = 0, f = 1\text{MHz}$ |
| Transition Frequency | f_T | - | 240 | - | MHz | $V_{CE} = -2\text{V}, I_C = -0.5\text{A}, f = 100\text{MHz}$ |

*Pulse test