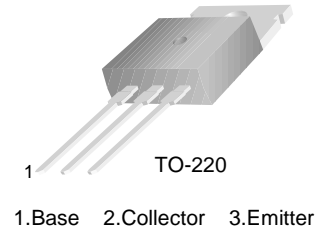


■ ■ APPLICATION: AMPLIFIER APPLICATION,  
SWITCHING APPLICATION.

■ ■ MAXIMUM RATINGS (Ta=25°C)

| PARAMETER                             | SYMBOL           | RATING   | UNIT |
|---------------------------------------|------------------|----------|------|
| Collector-base voltage                | V <sub>CBO</sub> | 80       | V    |
| Collector-emitter voltage             | V <sub>CEO</sub> | 80       | V    |
| Emitter-base voltage                  | V <sub>EBO</sub> | 5        | V    |
| Collector current                     | I <sub>C</sub>   | 6        | A    |
| Base current                          | I <sub>B</sub>   | 3        | A    |
| Collector Power Dissipation (Ta=25°C) | P <sub>C</sub>   | 2        | W    |
| Collector Power Dissipation (Tc=25°C) | P <sub>C</sub>   | 65       | W    |
| Junction Temperature                  | T <sub>J</sub>   | 150      | °C   |
| Storage Temperature Range             | T <sub>stg</sub> | - 65~150 | °C   |



■ ■ ELECTRICAL CHARACTERISTICS

(Ta=25°C)

| PARAMETER                            | SYMBOL               | MIN. | TYP. | MAX. | UNIT | TEST CONDITION                                     |
|--------------------------------------|----------------------|------|------|------|------|----------------------------------------------------|
| DC Current Gain                      | h <sub>FE1</sub>     | 15   |      | 75   |      | V <sub>CE</sub> = 4V, I <sub>C</sub> = 3A          |
|                                      | h <sub>FE2</sub>     | 30   |      |      |      | V <sub>CE</sub> = 4V, I <sub>C</sub> = 0.3A        |
| Collector-Emitter Cut-off Current    | I <sub>CEO</sub>     |      |      | 0.7  | mA   | V <sub>CE</sub> =60V, I <sub>E</sub> =0            |
| Emitter-Base Cut-off Current         | I <sub>EBO</sub>     |      |      | 1    | mA   | V <sub>EB</sub> =5V, I <sub>C</sub> =0             |
| Collector-Base Breakdown Voltage     | BV <sub>CBO</sub>    | 80   |      |      | V    | I <sub>C</sub> = 1mA, I <sub>E</sub> =0            |
| Base-Emitter on Voltage              | BV <sub>CEO</sub>    | 80   |      |      | V    | I <sub>C</sub> = 30mA, I <sub>B</sub> =0           |
| Emitter-Base Breakdown Voltage       | BV <sub>EBO</sub>    | 5    |      |      | V    | I <sub>E</sub> = 1mA, I <sub>C</sub> =0            |
| Base-Emitter on Voltage              | V <sub>BE</sub>      |      |      | 2    | V    | V <sub>CE</sub> = 4V, I <sub>C</sub> = 6A          |
| Collector-Emitter Saturation Voltage | V <sub>CE(sat)</sub> |      |      | 1.5  | V    | I <sub>C</sub> = 6A, I <sub>B</sub> =0.6A          |
| Gain bandwidth product               | f <sub>T</sub>       | 3    |      |      | MHz  | V <sub>CE</sub> =10V, I <sub>C</sub> =0.5A, f=1MHz |

■ ■ h<sub>FE</sub> Classification And Marking

Print Mark

Classification

h<sub>FE</sub>

15~75