

DESCRIPTION

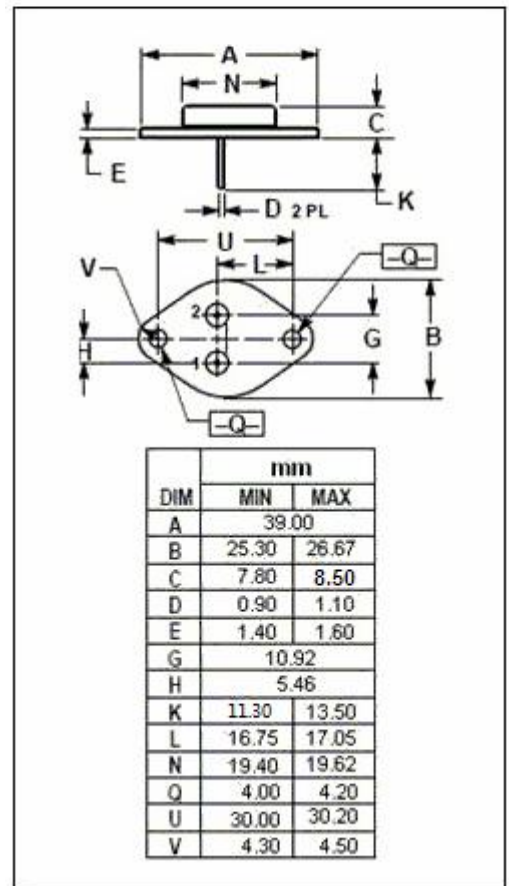
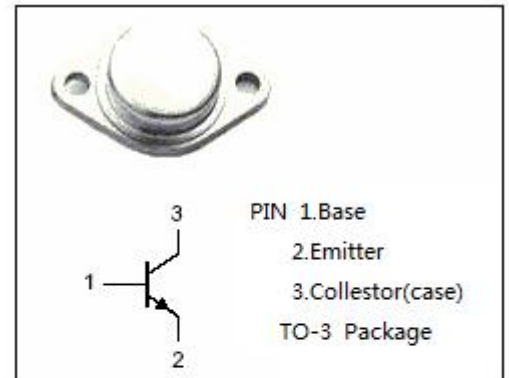
- High Voltage: $V_{CEV} = 400V(\text{Min})$
- Fast Switching Speed-
: $t_f = 0.5 \mu s(\text{Max})$
- Low Saturation Voltage-
: $V_{CE(\text{sat})} = 1.0V(\text{Max}) @ I_C = 6A$

APPLICATIONS

- Designed for use in horizontal deflection output stages of TV's and CRT's

ABSOLUTE MAXIMUM RATINGS($T_a = 25^\circ C$)

| SYMBOL | PARAMETER | VALUE | UNIT |
|-----------|---|---------|------------|
| V_{CBO} | Collector-Base Voltage | 400 | V |
| V_{CEV} | Collector-Emitter Voltage | 400 | V |
| V_{CEO} | Collector-Emitter Voltage | 200 | V |
| V_{EBO} | Emitter-Base Voltage | 6 | V |
| I_C | Collector Current-Continuous | 7 | A |
| I_{CM} | Collector Current-Peak | 10 | A |
| I_B | Base Current | 4 | A |
| P_C | Collector Power Dissipation @ $T_C = 25^\circ C$ | 90 | W |
| T_J | Junction Temperature | 150 | $^\circ C$ |
| T_{stg} | Storage Temperature Range | -65~150 | $^\circ C$ |



ELECTRICAL CHARACTERISTICS

$T_C=25^{\circ}\text{C}$ unless otherwise specified

| SYMBOL | PARAMETER | CONDITIONS | MIN | TYP. | MAX | UNIT |
|----------------|--------------------------------------|--|-----|------|-----|---------------|
| $V_{CEQ(SUS)}$ | Collector-Emitter Sustaining Voltage | $I_C= 50\text{mA}; I_B= 0$ | 200 | | | V |
| $V_{CE(sat)}$ | Collector-Emitter Saturation Voltage | $I_C= 6\text{A}; I_B= 1.2\text{A}$ | | | 1.0 | V |
| $V_{BE(sat)}$ | Base-Emitter Saturation Voltage | $I_C= 6\text{A}; I_B= 1.2\text{A}$ | | | 1.5 | V |
| h_{FE} | DC Current Gain | $I_C= 7\text{A}; V_{CE}= 1.5\text{V};$ | 4.3 | | | |
| I_{CEV} | Collector Cutoff Current | $V_{CE}= 400\text{V}; V_{BE}= -1.5\text{V}$ | | | 15 | mA |
| I_{EBO} | Emitter Cutoff Current | $V_{EB}= 6\text{V}; I_C= 0$ | | | 400 | mA |
| f_T | Current-Gain—Bandwidth Product | $I_C= 0.5\text{A}; V_{CE}= 10\text{V}, f_{test}= 1\text{MHz}$ | 10 | | | MHz |
| t_f | Fall Time | $I_C= 6\text{A}; I_{B1}= -I_{B2}= 1.2\text{A}, V_{CC}= 40\text{V}$ | | | 0.5 | μs |