

RELAY DRIVE, HAMMER DIRVE, LAMP DRIVE.
STROBO, DC-DC CONVERTER, MOTOR DRIVE.

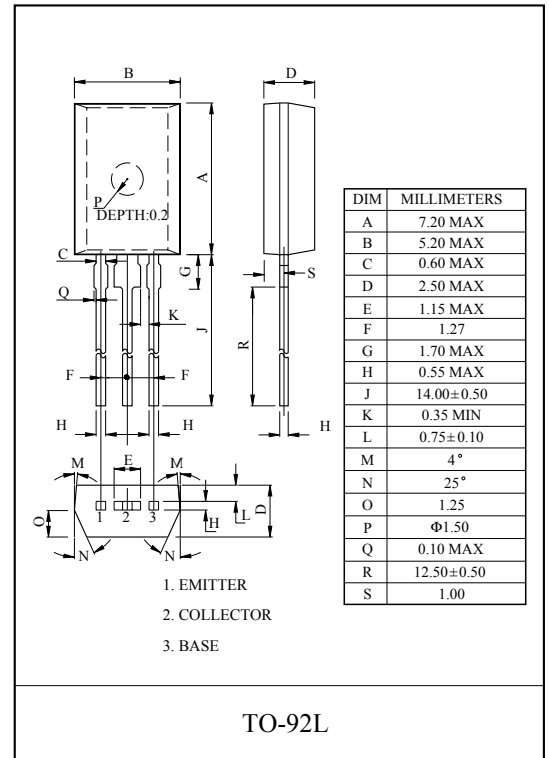
FEATURES

- Low Saturation Voltage.
: $V_{CE(sat)}=0.5V(\text{Max.})$ ($I_C=3A, I_B=60mA$).
- High Collector Current.
: $I_C=5A, I_{CP}(\text{Peak Current})=8A$.
- Wide ASO.

MAXIMUM RATING (Ta=25°C)

| CHARACTERISTIC | | SYMBOL | RATING | UNIT |
|-----------------------------|---------------|-----------|-----------|------|
| Collector-Base Voltage | | V_{CBO} | 60 | V |
| Collector-Emitter Voltage | | V_{CEO} | 20 | V |
| Emitter-Base Voltage | | V_{EBO} | 6 | V |
| Collector Current | DC | I_C | 5 | A |
| | Pulse (Note1) | I_{CP} | 8 | |
| Collector Power Dissipation | | P_C | 1 | W |
| Junction Temperature | | T_j | 150 | °C |
| Storage Temperature Range | | T_{stg} | -55 ~ 150 | °C |

Note 1: Pulse Width $\leq 100\text{mS}$, Duty Cycle $\leq 30\%$



ELECTRICAL CHARACTERISTICS (Ta=25°C)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|----------------------|-----------------------------|------|------|------|------|
| Collector Cut-off Current | I_{CBO} | $V_{CB}=50V, I_E=0$ | - | - | 100 | nA |
| Emitter Cut-off Current | I_{EBO} | $V_{EB}=5V, I_C=0$ | - | - | 100 | nA |
| DC Current Gain | $h_{FE(1)}$ (Note 1) | $V_{CE}=2V, I_C=0.5A$ | 140 | - | 600 | |
| | $h_{FE(2)}$ | $V_{CE}=2V, I_C=3A$ (Pulse) | 75 | - | - | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=3A, I_B=60mA$ (Pulse) | - | - | 0.5 | V |
| Transition Frequency | f_T | $V_{CE}=10V, I_C=50mA$ | - | 120 | - | MHz |
| Collector Output Capacitance | C_{ob} | $V_{CB}=10V, I_E=0, f=1MHz$ | - | 27 | - | pF |

Note 1 : $h_{FE(1)}$ Classification A:140~240, B:200~330, C:300~450, D:420~600

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