

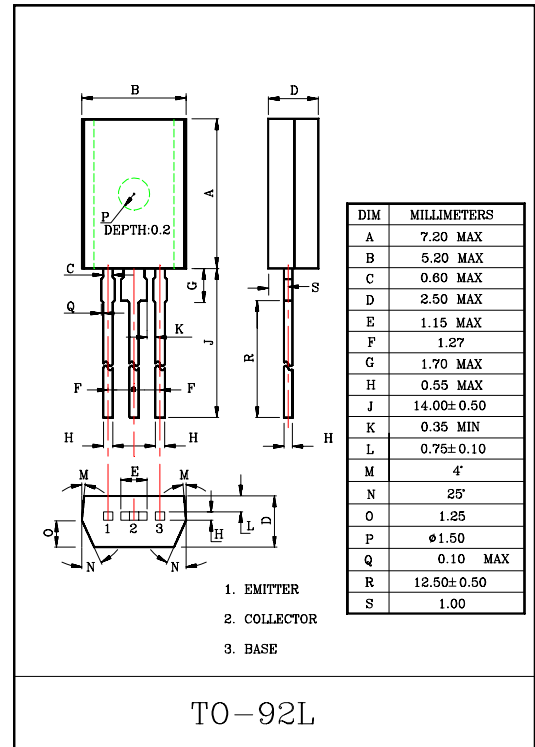
GENERAL PURPOSE APPLICATION.

#### FEATURE

- Complementary to KTA1274.

#### MAXIMUM RATINGS (Ta=25℃)

| CHARACTERISTIC              | SYMBOL    | RATING  | UNIT |
|-----------------------------|-----------|---------|------|
| Collector-Base Voltage      | $V_{CBO}$ | 80      | V    |
| Collector-Emitter Voltage   | $V_{CEO}$ | 80      | V    |
| Emitter Base Voltage        | $V_{EBO}$ | 5       | V    |
| Collector Current           | $I_C$     | 400     | mA   |
| Emitter Current             | $I_E$     | -400    | mA   |
| Collector Power Dissipation | $P_C$     | 1       | W    |
| Junction Temperature        | $T_j$     | 150     | ℃    |
| Storage Temperature Range   | $T_{slg}$ | -55~150 | ℃    |



#### ELECTRICAL CHARACTERISTICS (Ta=25℃)

| 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   |
| Collector-Emitter Breakdown Voltage  | $V_{(BR)CEO}$         | $I_C=5mA, I_B=0$       | 80   | -    | -    | V    |
| DC Current Gain                      | $h_{FE(1)}$<br>(Note) | $V_{CE}=2V, I_C=50mA$  | 70   | -    | 240  |      |
|                                      | $h_{FE(2)}$           | $V_{CE}=2V, I_C=200mA$ | 40   | -    | -    |      |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$         | $I_C=200mA, I_B=20mA$  | -    | -    | 0.4  | V    |
| Base-Emitter Voltage                 | $V_{BE}$              | $V_{CE}=2V, I_C=5mA$   | 0.55 | -    | 0.8  | V    |
| Transition Frequency                 | $f_T$                 | $V_{CE}=10V, I_C=10mA$ | -    | 100  | -    | MHz  |
| Collector Output Capacitance         | $C_{ob}$              | $V_{CB}=10V, f=1MHz$   | -    | 10   | -    | pF   |

Note :  $h_{FE(1)}$  Classification O:70~140, Y:120~240

