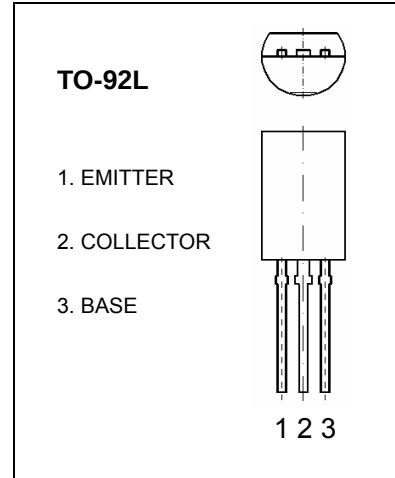


# 深圳市晶泰源电子有限公司

## 2SC2482 TRANSISTOR (NPN)

### FEATURE

- High voltage : $V_{ce0}=300V$
- Small collector output capacitance:  $C_{ob}=3.0pF(Typ)$



### MAXIMUM RATINGS ( $T_A=25^{\circ}C$ unless otherwise noted)

| Symbol    | Parameter                     | Value   | Units       |
|-----------|-------------------------------|---------|-------------|
| $V_{CBO}$ | Collector-Base Voltage        | 300     | V           |
| $V_{CEO}$ | Collector-Emitter Voltage     | 300     | V           |
| $V_{EBO}$ | Emitter-Base Voltage          | 7       | V           |
| $I_C$     | Collector Current -Continuous | 0.1     | A           |
| $P_C$     | Collector Power Dissipation   | 0.9     | W           |
| $T_J$     | Junction Temperature          | 150     | $^{\circ}C$ |
| $T_{stg}$ | Storage Temperature           | -55-150 | $^{\circ}C$ |

### ELECTRICAL CHARACTERISTICS( $T_{amb}=25^{\circ}C$ unless otherwise specified)

| Parameter                            | Symbol        | Test conditions                 | MIN | TYP | MAX | UNIT    |
|--------------------------------------|---------------|---------------------------------|-----|-----|-----|---------|
| Collector-base breakdown voltage     | $V(BR)_{CBO}$ | $I_C=100\mu A, I_E=0$           | 300 |     |     | V       |
| Collector-emitter breakdown voltage  | $V(BR)_{CEO}$ | $I_C=3mA, I_B=0$                | 300 |     |     | V       |
| Emitter-base breakdown voltage       | $V(BR)_{EBO}$ | $I_E=100\mu A, I_C=0$           | 7   |     |     | V       |
| Collector cut-off current            | $I_{CBO}$     | $V_{CB}=240V, I_E=0$            |     |     | 1.0 | $\mu A$ |
| Collector cut-off current            | $I_{CEO}$     | $V_{CB}=220V, I_B=0$            |     |     | 5.0 | $\mu A$ |
| Emitter cut-off current              | $I_{EBO}$     | $V_{EB}=7V, I_C=0$              |     |     | 1.0 | $\mu A$ |
| DC current gain                      | $h_{FE}$      | $V_{CE}=10V, I_C=20mA$          | 30  |     | 150 |         |
| Collector-emitter saturation voltage | $V_{CE(sat)}$ | $I_C=10mA, I_B=1mA$             |     |     | 1.0 | V       |
| Base-emitter saturation voltage      | $V_{BE(sat)}$ | $I_C=10mA, I_B=1mA$             |     |     | 1.0 | V       |
| Transition frequency                 | $f_T$         | $V_{CE}=10V, I_C=20mA, f=30MHz$ | 50  |     |     | MHz     |
| Collector output capacitance         | $C_{ob}$      | $V_{CB}=20V, I_E=0, f=1MHz$     |     | 3   |     | pF      |

### CLASSIFICATION OF $h_{FE}$

|       |  |         |
|-------|--|---------|
| Rank  |  | Y       |
| Range |  | 100-200 |