

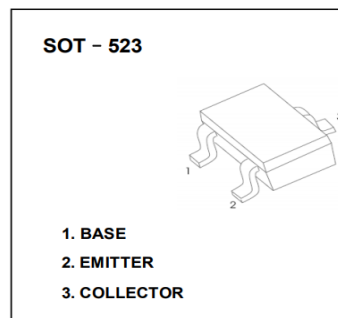
## TRANSISTOR (PNP)

### FEATURES

Complimentary to S8050

Collector current:  $I_C=0.8A$

MARKING : 2TY



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

| Symbol    | Parameter                     | Value   | Units       |
|-----------|-------------------------------|---------|-------------|
| $V_{CBO}$ | Collector-Base Voltage        | -40     | V           |
| $V_{CEO}$ | Collector-Emitter Voltage     | -25     | V           |
| $V_{EBO}$ | Emitter-Base Voltage          | -5      | V           |
| $I_C$     | Collector Current -Continuous | -0.8    | A           |
| $P_C$     | Collector Power Dissipation   | 0.2     | 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 | MAX  | UNIT    |
|--------------------------------------|---------------|--------------------------------------------|-----|------|---------|
| Collector-base breakdown voltage     | $V_{(BR)CBO}$ | $I_C = -100\mu A, I_E = 0$                 | -40 |      | V       |
| Collector-emitter breakdown voltage  | $V_{(BR)CEO}$ | $I_C = -1mA, I_B = 0$                      | -25 |      | V       |
| Emitter-base breakdown voltage       | $V_{(BR)EBO}$ | $I_E = -100\mu A, I_C = 0$                 | -5  |      | V       |
| Collector cut-off current            | $I_{CBO}$     | $V_{CB} = -40V, I_E = 0$                   |     | -0.1 | $\mu A$ |
| Collector cut-off current            | $I_{CEO}$     | $V_{CE} = -20V, I_B = 0$                   |     | -0.1 | $\mu A$ |
| Emitter cut-off current              | $I_{EBO}$     | $V_{EB} = -3V, I_C = 0$                    |     | -0.1 | $\mu A$ |
| DC current gain                      | $h_{FE(1)}$   | $V_{CE} = -1V, I_C = -50mA$                | 200 | 350  |         |
|                                      | $h_{FE(2)}$   | $V_{CE} = -1V, I_C = -500mA$               | 50  |      |         |
| Collector-emitter saturation voltage | $V_{CE(Sat)}$ | $I_C = -500mA, I_B = -50mA$                |     | -0.6 | V       |
| Base-emitter saturation voltage      | $V_{BE(Sat)}$ | $I_C = -500mA, I_B = -50mA$                |     | -1.2 | V       |
| Transition frequency                 | $f_T$         | $V_{CE} = -6V, I_C = -20mA$<br>$f = 30MHz$ | 150 |      | MHz     |

