

# Si PNP TRANSISTOR

2SA573, 2SA574

EPOXY MOLDED, AUDIO AMP., RF AMP., SWITCHING

## ■ ABSOLUTE MAXIMUM RATINGS (Ta : 25°C)

|                           |           | 2SA573   | 2SA574   |    |
|---------------------------|-----------|----------|----------|----|
| COLLECTOR-BASE VOLTAGE    | $V_{CBO}$ | -30      | -60      | V  |
| COLLECTOR-EMITTER VOLTAGE | $V_{CEO}$ | -25      | -50      | V  |
| EMITTER-BASE VOLTAGE      | $V_{EBO}$ | -5       | -5       | V  |
| COLLECTOR CURRENT         | $I_C$     | -100     | -100     | mA |
| POWER DISSIPATION         | $P_C$     | 300      | 300      | mW |
| JUNCTION TEMPERATURE      | $T_j$     | 125      | 125      | °C |
| STORAGE TEMPERATURE       | $T_{stg}$ | -55~+125 | -55~+125 | °C |

## ■ ELECTRICAL CHARACTERISTICS (Ta : 25°C)

| PARAMETER                            | SYM.          | TEST CONDITIONS                           | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|---------------|---|------|------|------|------|
| COLLECTOR CUTOFF CURRENT             | $I_{CBO}$     | $V_{CB} : -20V, I_E : 0$                  |      |      | -100 | nA   |
| STATIC FWD. CUR. TRANSFER RATIO      | $h_{FE}$      | $V_{CE} : -6V, I_C : -1mA, \text{NOTE 1}$ | 30   |      | 800  |      |
| TRANSITION FREQUENCY                 | $f_T$         | $V_{CE} : -10V, I_E : 2mA$                | 80   | 150  |      | MHz  |
| COLLECTOR OUTPUT CAPACITANCE         | $C_{ob}$      | $V_{CB} : -10V, I_E : 0, f : 1MHz$        |      | 4    | 10   | pF   |
| BASE-COLLECTOR TIME CONSTANT         | $C_{eTb'b}$   | $V_{CB} : -10V, I_E : 2mA, f : 31.9MHz$   |      | 50   | 150  | ps   |
| COLLECTOR-EMITTER SATURATION VOLTAGE | $V_{CE(sat)}$ | $I_C : -50mA, I_B : -10mA$                |      |      | -0.3 | V    |
| BASE-EMITTER SATURATION VOLTAGE      | $V_{BE(sat)}$ | $I_C : -50mA, I_B : -10mA$                |      |      | -1.0 | V    |

NOTE 1 : ACCORDING TO THE VALUE OF  $h_{FE}$ , THE DEVICES ARE CLASSIFIED AS FOLLOWS.

- RANK 1 : 30~70
- RANK 2 : 60~120
- RANK 3 : 90~180
- RANK 4 : 150~350
- RANK 5 : 250~500
- RANK 6 : 400~800

NOTE 2 : FOR COMPLEMENTARY CIRCUITS USING **2SA573** AND **2SA574**, NPN DEVICES TYPE **2SC950** AND **2SC951** ARE RESPECTIVELY AVAILABLE FOR REQUEST.

