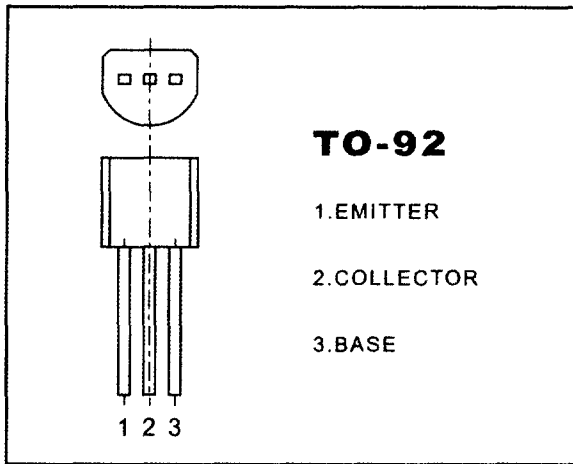


## TO-92 Plastic-Encapsulate Transistors

## 2SA562 TRANSISTOR(NPN)

**TO-92**

1. EMITTER  
2. COLLECTOR  
3. BASE

**FEATURES****Power dissipation**

$P_{CM}$ : 0.5W ( $T_{amb}=25^{\circ}C$ )

**Collector current**

$I_{CM}$ : -0.5 A

**Collector-base voltage**

$V_{(BR)CBO}$ : -35 V

**Operating and storage junction temperature range**

$T_J, T_{sig}$ :  $-55^{\circ}C$  to  $+150^{\circ}C$

**ELECTRICAL CHARACTERISTICS**

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

|                                      |               |                                |     |       |         |
|--------------------------------------|---------------|--------------------------------|-----|-------|---------|
| Collector-base breakdown voltage     | $V_{(BR)CBO}$ | $I_C = -100 \mu A, I_E = 0$    | -35 |       | V       |
| Collector-emitter breakdown voltage  | $V_{(BR)CEO}$ | $I_C = -1 mA, I_B = 0$         | -30 |       | V       |
| Emitter-base breakdown voltage       | $V_{(BR)EBO}$ | $I_E = -100 \mu A, I_C = 0$    | -5  |       | V       |
| Collector cut-off current            | $I_{CBO}$     | $V_{CB} = -35 V, I_E = 0$      |     | -0.1  | $\mu A$ |
| Emitter cut-off current              | $I_{EBO}$     | $V_{EB} = -5 V, I_C = 0$       |     | -0.1  | $\mu A$ |
| DC current gain                      | $h_{FE(1)}$   | $V_{CE} = -1 V, I_C = -100 mA$ | 70  | 240   |         |
|                                      | $h_{FE(2)}$   | $V_{CE} = -6 V, I_C = -400 mA$ | 25  |       |         |
| Collector-emitter saturation voltage | $V_{CEsat}$   | $I_C = -100 mA, I_B = -10 mA$  |     | -0.25 | V       |
| Base-emitter voltage                 | $V_{BE}$      | $V_{CE} = -1 V, I_C = -100 mA$ |     | -1    | V       |
| Transition frequency                 | $f_T$         | $V_{CE} = -6 V, I_C = -20 mA$  | 200 |       | MHz     |
|                                      |               | $f = 30 MHz$                   |     |       |         |

**CLASSIFICATION OF  $h_{FE(1)}$** 

| Rank  |             | O      | Y       |
|-------|-------------|--------|---------|
| Range | $h_{FE(1)}$ | 70-140 | 120-240 |
|       | $h_{FE(2)}$ | 25min  | 40min   |

Typical Characteristics

2SA562

