



## TO-92 Plastic-Encapsulated Transistors

### 2SA562 TRANSISTOR (PNP)

#### FEATURE

Power dissipation

$$P_{CM} : 0.5 \text{ W (Tamb=25°C)}$$

Collector current

$$I_{CM} : -0.5 \text{ A}$$

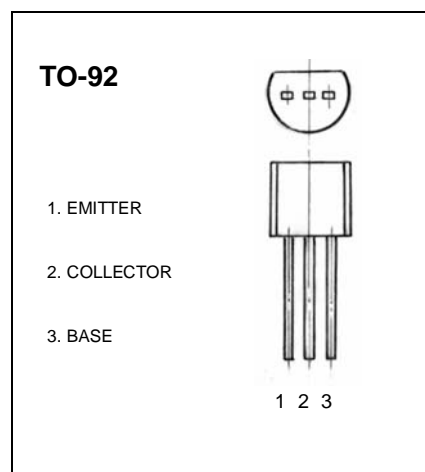
Collector-base voltage

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

Operating and storage junction temperature range

$$T_{stg} : -55°C \text{ to } +150°C$$

$$T_J : 150°C$$



#### ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = -100\mu A, I_E = 0$	-35			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = -1mA, I_B = 0$	-30			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = -100\mu A, I_C = 0$	-5			V
Collector cut-off current	$I_{CBO}$	$V_{CB} = -35V, I_E = 0$			-0.1	$\mu A$
Emitter cut-off current	$I_{EBO}$	$V_{EB} = -5V, I_C = 0$			-0.1	$\mu A$
DC current gain	$h_{FE}$	$V_{CE} = -1V, I_C = -100mA$	70		240	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -100mA, I_B = -10mA$			-0.25	V
Base-emitter voltage	$V_{BE(on)}$	$V_{CE} = -1V, I_C = -100mA$			-1	V
Transition frequency	$f_T$	$V_{CE} = -6V, I_C = -20mA$ $F = 30MHz$	200			MHz

#### CLASSIFICATION OF $h_{FE}$

Rank		O	Y
Range	$h_{FE(1)}$	70-140	120-240