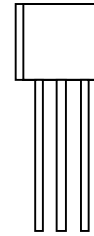




**S8550**

**TRANSISTOR (PNP)**

TO-92



- 1. EMITTER
- 2. BASE
- 3. COLLECTOR

1 2 3

**FEATURES**

Power dissipation

$$P_{CM} : 0.625 \text{ W ( } T_{amb}=25^{\circ}\text{C )}$$

Collector current

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

Collector-base voltage

$$V_{(BR)CBO} : - 40 \text{ V}$$

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

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=-100 \mu\text{A}, I_E=0$	- 40			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=0.1 \text{ mA}, I_B=0$	- 25			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=-100 \mu\text{A}, I_C=0$	- 5			V
Collector cut-off current	$I_{CBO}$	$V_{CB}=-40 \text{ V}, I_E=0$			- 0.1	$\mu\text{A}$
Collector cut-off current	$I_{CEO}$	$V_{CE}=-20 \text{ V}, I_B=0$			- 0.2	$\mu\text{A}$
Emitter cut-off current	$I_{EBO}$	$V_{EB}=- 3 \text{ V}, I_C=0$			- 0.1	$\mu\text{A}$
DC current gain(note)	$H_{FE(1)}$	$V_{CE}=-1 \text{ V}, I_C= 50\text{mA}$	85		300	
	$H_{FE(2)}$	$V_{CE}=-1 \text{ V}, I_C= 500\text{mA}$	50			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=-500\text{mA}, I_B= 50 \text{ mA}$			- 0.6	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=-500\text{mA}, I_B= 50 \text{ mA}$			- 1.2	V
Base-emitter voltage	$V_{BE}$	$I_E=-100\text{mA}$			- 1.4	V
Transition frequency	$f_T$	$V_{CE}=6 \text{ V}, I_C=-20\text{mA}$ $f = 30\text{MHz}$	150			MHz

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

Rank	B	C	D
Range	85-160	120-200	160-300