# Transistors C8550

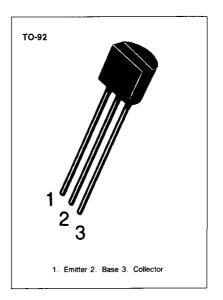


## 2W OUTPUT AMPLIFIER OF PORTABLE RADIOS IN CLASS B PUSH-PULL OPERATION.

- Collector Current Ic = -1.5A
- Collector Dissipation  $P_c = 2W$  ( $T_c = 25$ °C)

#### ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V <sub>CBO</sub>	-40	٧
Collector-Emitter Voltage	V <sub>CEO</sub>	-25	V
Emitter-Base Voltage	V <sub>EBO</sub>	-6	V
Collector Current	l <sub>c</sub>	-1.5	Α
Collector Dissipation	Pc	1	w
Junction Temperature	Tj	150	°C
Storage Temperature	Tstg	-65~150	°C



### **ELECTRICAL CHARACTERISTICS (Ta=25°C)**

Characteristic	Symbol	Test Conditions	Min	Тур	Max	Unit
Collector-Base Breakdown Voltage	BV <sub>CBO</sub>	I <sub>C</sub> =-100μA, I <sub>E</sub> =0	-40			V
Collector-Emitter Breakdown Voltage	BV <sub>CEO</sub>	$I_{c} = -2mA, I_{B} = 0$	-25			V
Emitter-Base Breakdown Voltage	BV <sub>EBO</sub>	$I_E = -100 \mu A$ , $I_C = 0$	-6			٧
Collector Cutoff Current	Ісво	$V_{CB} = -35V, I_F = 0$			-100	nA
Emitter Cutoff Current	I <sub>EBO</sub>	$V_{EB} = -6V, I_{C} = 0$			-100	nA
DC Current Gain	h <sub>FE</sub> 1	$v_{cE} = -1 v, I_{c} = -5 mA$	45	170		
	h <sub>FE</sub> 2	$V_{CE} = -1V$ , $I_{C} = -100 \text{mA}$	85	160	300	
	h <sub>FF</sub> 3	$V_{CE} = -1V$ , $I_{C} = -800$ mA	40	80		
Collector-Emitter Saturation Voltage	V <sub>CE</sub> (sat)	$I_{C} = -800 \text{mA}, I_{B} = -80 \text{mA}$		-0.28	-0.5	V
Base-Emitter Saturation Voltage	V <sub>BE</sub> (sat)	$I_{c} = -800 \text{mA}, I_{B} = -80 \text{mA}$		-0.98	-1.2	٧
Base Emitter Voltage	V <sub>BE</sub>	$V_{CE} = -1V$ . $I_{C} = -10mA$		-0.66	-1.0	٧
Output Capacitance	Cob	V <sub>CB</sub> =-10V. I <sub>E</sub> =0		15		ρF
		f= IMHz				
Current Gain-Bandwidth Product	f <sub>T</sub>	$V_{CE} = -10V, I_{C} = -50mA$	100	200		MHz

#### h<sub>FE</sub> (2) CLASSIFICATION

Classification	В	С	D
h <sub>FE</sub> (2)	85-160	120-200	160-300

