# Transistors C8050

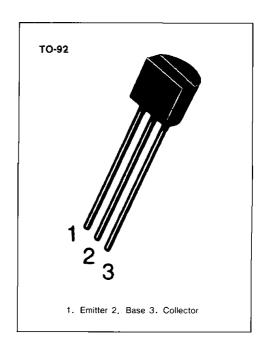


## 2W OUTPUT AMPLIFIER OF PORTABLE RADIOS IN CLASS B PUSH-PULL OPERATION.

- Complimentary to SS8550
- Collector Current Ic=1.5A
- Collector Dissipation P<sub>C</sub>=2W (T<sub>C</sub>=25°C)

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

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage Collector-Emitter Voltage Emitter-Base Voltage Collector Current Collector Dissipation Junction Temperature Storage Temperature	V <sub>CBO</sub> V <sub>CEO</sub> V <sub>EBO</sub> I <sub>C</sub> P <sub>C</sub> Tj Tstg	40 25 6 1.5 1 150 -65~150	V V V A W °C °C



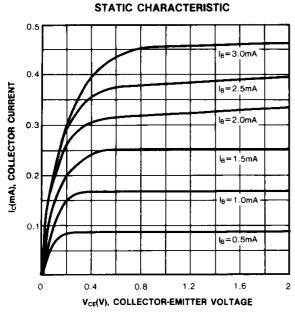
### **ELECTRICAL CHARACTERISTICS (Ta=25°C)**

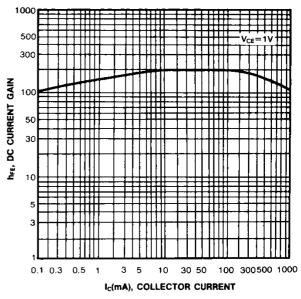
Characteristic	Symbol	Test Conditions	Min	Тур	Max	Unit
Collector-Base Breakdown Voltage	BV <sub>CBO</sub>	I <sub>C</sub> =100μA, I <sub>E</sub> =0	40	,		V
Collector-Emitter Breakdown Voltage	BV <sub>CEO</sub>	I <sub>C</sub> =2mA, I <sub>B</sub> =0	25			V
Emitter-Base Breakdown Voltage	BV <sub>EBO</sub>	$I_E = 100 \mu A, I_C = 0$	6			V
Collector Cutoff Current	СВО	$V_{CB} = 35V, I_{E} = 0$			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	$V_{CE}=1V$ , $I_{C}=5mA$	45	135		
	h <sub>FE</sub> 2	$V_{CE} = 1V, I_{C} = 100mA$	85	160	300	
	h <sub>FF</sub> 3	V <sub>CE</sub> =1V, I <sub>C</sub> =800mA	40	110		
Collector-Emitter Saturation Voltage	V <sub>CE</sub> (sat)	I <sub>C</sub> =800mA, I <sub>B</sub> =80mA		0.28	0.5	V
Base-Emitter Saturation Voltage	V <sub>BE</sub> (sat)	I <sub>C</sub> =800mA, I <sub>B</sub> =80mA		0.98	1.2	l v
Base-Emitter Voltage	V <sub>BE</sub>	V <sub>CE</sub> =1V, I <sub>C</sub> =10mA		0.66	1	lv
Output Capacitance	C <sub>ob</sub>	$V_{CB} = 10V, I_{E} = 0$		9.0	'	pF
Current Gain-Bandwidth Product	f⊤	f=1MHz $V_{CE}=10V, I_{C}=50mA$	100	190		MHz

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

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







DC CURRENT GAIN

