Transistors C8050

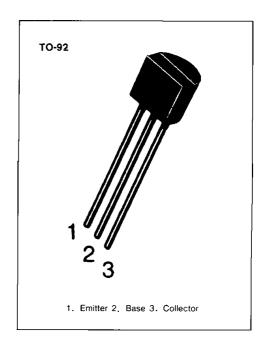


2W OUTPUT AMPLIFIER OF PORTABLE RADIOS IN CLASS B PUSH-PULL OPERATION.

- www.Data Complimentary to SS8550
 - Collector Current Ic=1.5A
 - Collector Dissipation Pc=2W (Tc=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 _{CBO} V _{CEO} V _{EBO} I _C P _C Tj	40 25 6 1.5 1 150 -65~150	V V A W °C °C



ELECTRICAL CHARACTERISTICS (Ta=25°C)

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

h_{FE} (2) CLASSIFICATION

Classification	В	С	D
h _{FE} (2)	85-160	120-200	160-300



