

SS8550

2W Output Amplifier of Portable Radios in Class B Push-pull Operation.

- Complimentary to \$\$8050
- Collector Current: I_C=1.5A
- Collector Power Dissipation: P_C=2W (T_C=25°C)



1. Emitter 2. Base 3. Collector

PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings T_a =25°C unless otherwise noted

Symbol	Parameter	Ratings	Units
V _{CBO}	Collector-Base Voltage	-40	V
V _{CEO}	Collector-Emitter Voltage	-25	V
V _{EBO}	Emitter-Base Voltage	-6	V
I _C	Collector Current	-1.5	Α
P _C	Collector Power Dissipation	1	W
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-65 ~ 150	°C

Electrical Characteristics T_a=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	$I_C = -100 \mu A, I_E = 0$	-40			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	$I_C = -2mA$, $I_B = 0$	-25			V
BV _{EBO}	Emitter-Base Breakdown Voltage	$I_E = -100 \mu A, I_C = 0$	-6			V
I _{CBO}	Collector Cut-off Current	$V_{CB} = -35V, I_{E} = 0$			-100	nA
I _{EBO}	Emitter Cut-off Current	V _{EB} = -6V, I _C =0			-100	nA
h _{FE1} h _{FE2} h _{FE3}	DC Current Gain	V _{CE} = -1V, I _C = -5mA V _{CE} = -1V, I _C = -100mA V _{CE} = -1V, I _C = -800mA	45 85 40	170 160 80	300	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -800mA, I _B = -80mA		-0.28	-0.5	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = -800mA, I _B = -80mA		-0.98	-1.2	V
V _{BE} (on)	Base-Emitter on Voltage	V _{CE} = -1V, I _C = -10mA		-0.66	-1.0	V
C _{ob}	Output Capacitance	V _{CB} = -10V, I _E =0 f=1MHz		15		pF
f _T	Current Gain Bandwidth Product	V _{CE} = -10V, I _C = -50mA	100	200		MHz

hFEClassification

_ · =				
Classification	В	С	D	
h _{FF2}	85 ~ 160	120 ~ 200	160 ~ 300	

Typical Characteristics

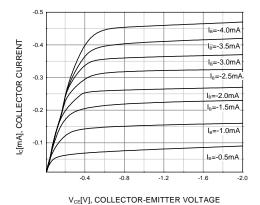


Figure 1. Static Characteristic

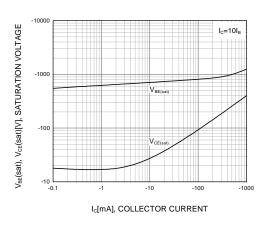


Figure 3. Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

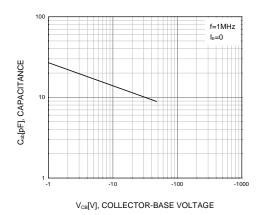


Figure 5. Collector Output Capacitance

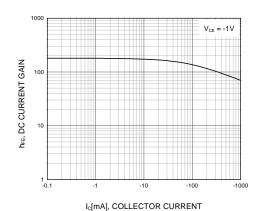


Figure 2. DC current Gain

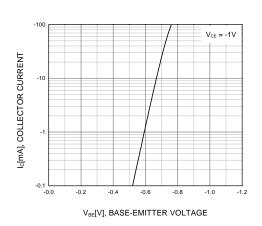


Figure 4. Base-Emitter On Voltage

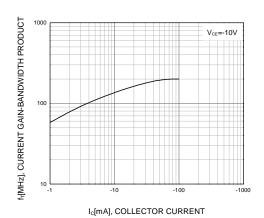
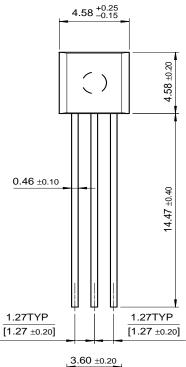


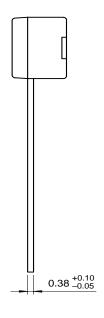
Figure 6. Current Gain Bandwidth Product

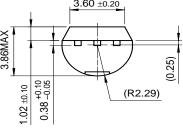
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Package Dimensions

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E ² CMOS™	HiSeC™	MSXPro™	Quiet Series™	TruTranslation™
EnSigna™	I ² C TM	OCX^{TM}	RapidConfigure™	UHC™
Across the board.	. Around the world.™	OCXPro™	RapidConnect™	UltraFET [®]
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Programmable Ad	ctive Droop™	OPTOPLANAR™	SMART START™	

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