FAIRCHILD

SEMICONDUCTOR®

SS8550

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

- Complimentary to SS8050
- Collector Current: I_C=1.5A
- Collector Power Dissipation: $P_C=2W$ ($T_C=25^{\circ}C$)



1. Emitter 2. Base 3. Collector

PNP Epitaxial Silicon Transistor

Absolute Maximum	Ratings	T _a =25°C unless otherwise noted
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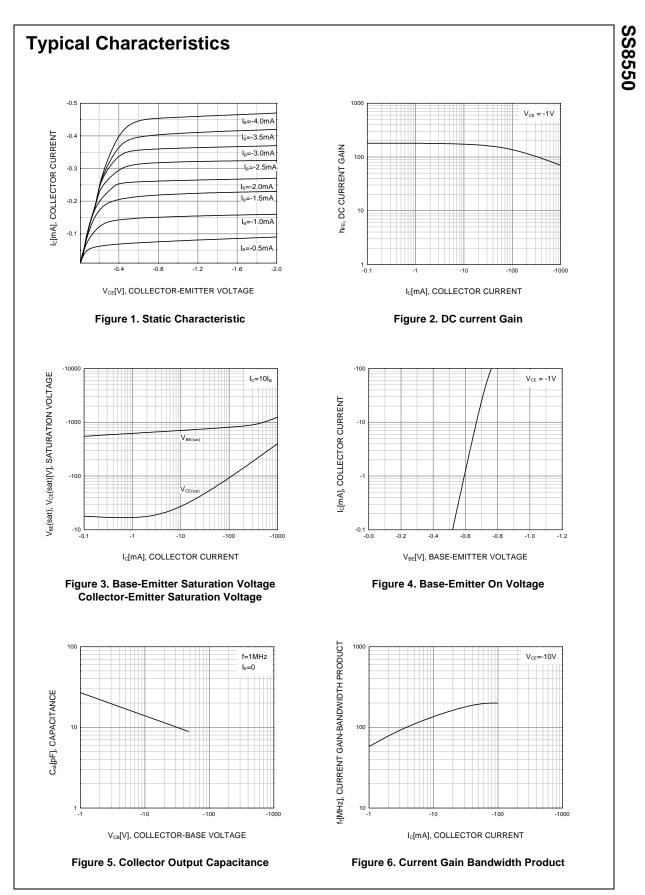
Symbol	Parameter	Ratings	Units
V _{CBO}	Collector-Base Voltage	-40	V
V _{CEO}	Collector-Emitter Voltage	-25	V
V _{EBO}	Emitter-Base Voltage	-6	V
с	Collector Current	-1.5	A
P _C	Collector Power Dissipation	1	W
Т _Ј	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-65 ~ 150	°C

Electrical Characteristics Ta=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I _C = -100μA, 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 = -100μA, 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

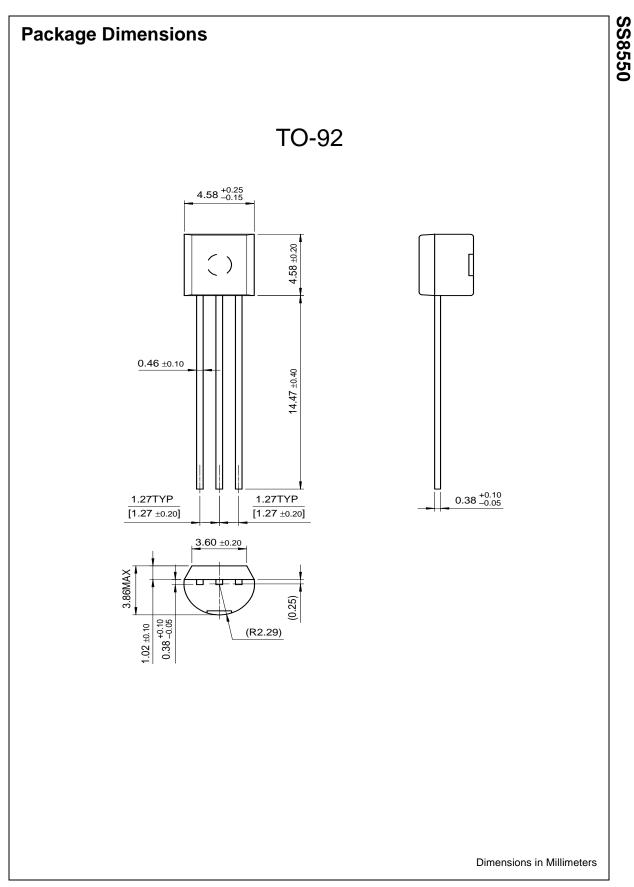
h_{FE}Classification

Classification	В	С	D
h _{FE2}	85 ~ 160	120 ~ 200	160 ~ 300



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2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
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