

SS8050 NPN Epitaxial Silicon Transistor

Features

- 2W Output Amplifier of Portable Radios in Class B Push-pull Operation.
- Complimentary to SS8550
- Collector Current: I_C=1.5A
- Collector Power Dissipation: P_C=2W (T_C=25°C)



Absolute Maximum Ratings $T_a = 25^{\circ}C$ unless otherwise noted

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

Electrical Characteristics $T_a = 25^{\circ}C$ unless otherwise noted

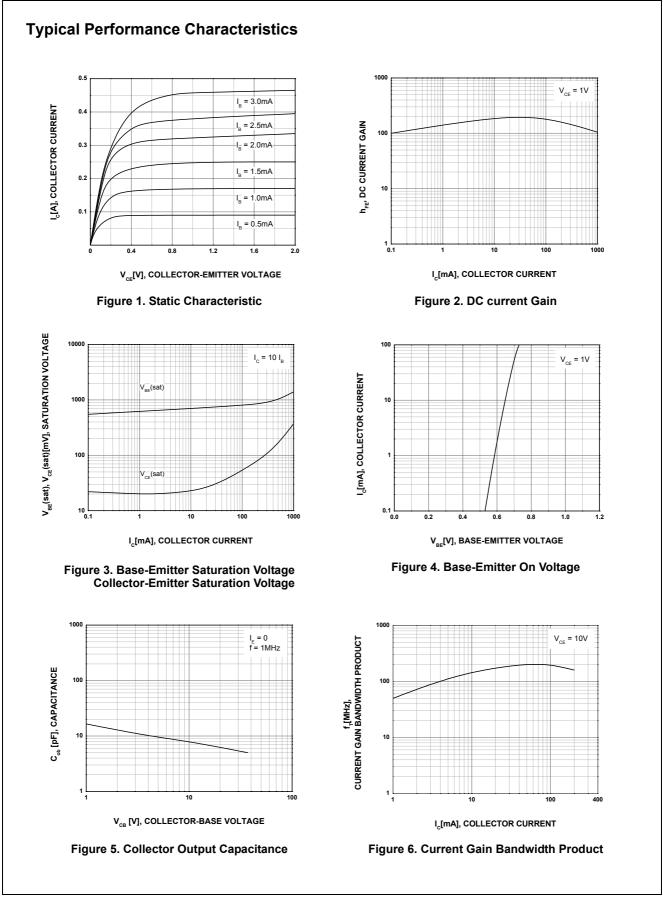
Symbol	Parameter	Conditions	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I _C =100μA, I _E =0	40			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C =2mA, I _B =0	25			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E =100μA, I _C =0	6			V
I _{CBO}	Collector Cut-off Current	V _{CB} =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		300	
V _{CE (sat)}	Collector-Emitter Saturation Voltage	I _C =800mA, I _B =80mA			0.5	V
V _{BE (sat)}	Base-Emitter Saturation Voltage	I _C =800mA, I _B =80mA			1.2	V
V _{BE (on)}	Base-Emitter On Voltage	V _{CE} =1V, I _C =10mA			1	V
C _{ob}	Output Capacitance	V _{CB} =10V, I _E =0, f=1MHz		9.0		pF
f _T	Current Gain Bandwidth Product	V _{CE} =10V, I _C =50mA	100			MHz

h_{FE} Classification

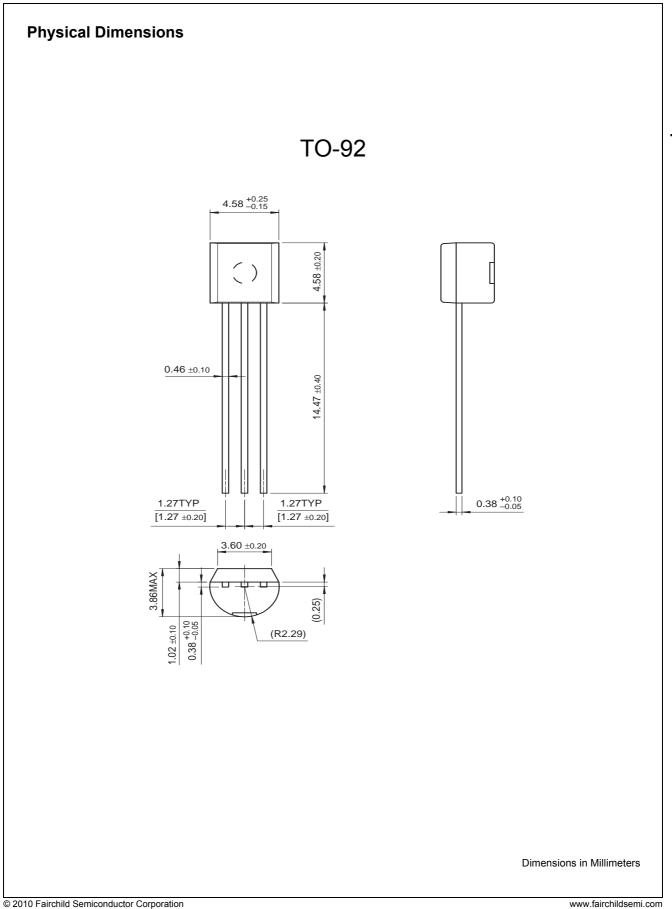
Classification	В	С	D
h _{FE2}	85 ~ 160	120 ~ 200	160 ~ 300

www.fairchildsemi.com

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SS8050 Rev. B3

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