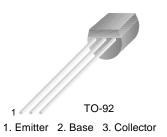
FAIRCHILD

SEMICONDUCTOR®

SS9013

1W Output Amplifier of Potable Radios in **Class B Push-pull Operation.**

- High total power dissipation. (P_T=625mW)
 High Collector Current. (I_C=500mA)
- Complementary to SS9012
- Excellent h_{FE} linearity.



NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings T_a=25°C unless otherwise noted

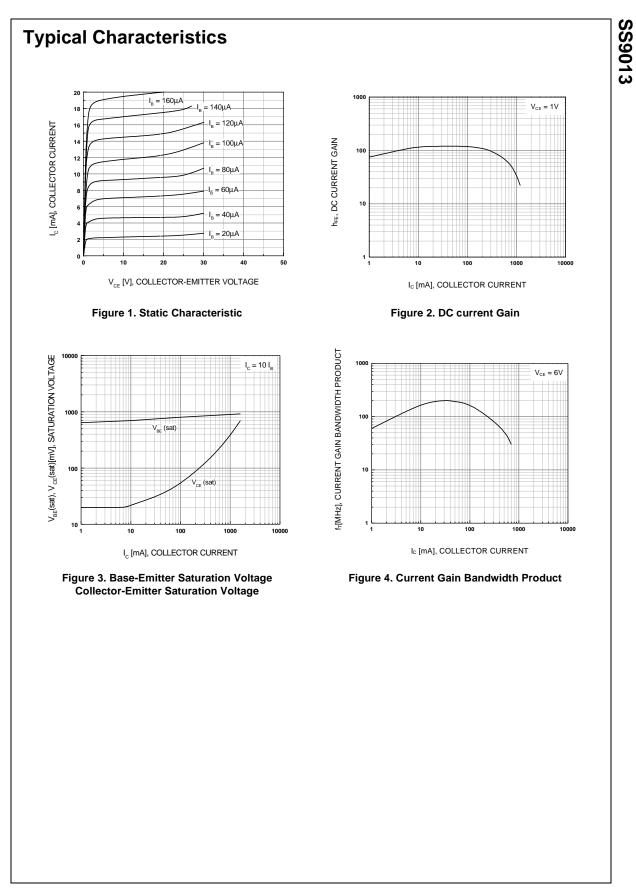
Symbol	Parameter	Ratings	Units	
V _{CBO}	Collector-Base Voltage	40	V	
V _{CEO}	Collector-Emitter Voltage	20	V	
V _{EBO}	Emitter-Base Voltage	5	V	
c	Collector Current	500	mA	
P _C	Collector Power Dissipation	625	mW	
ТJ	Junction Temperature	150	°C	
T _{STG}	Storage Temperature	-55 ~ 150	°C	

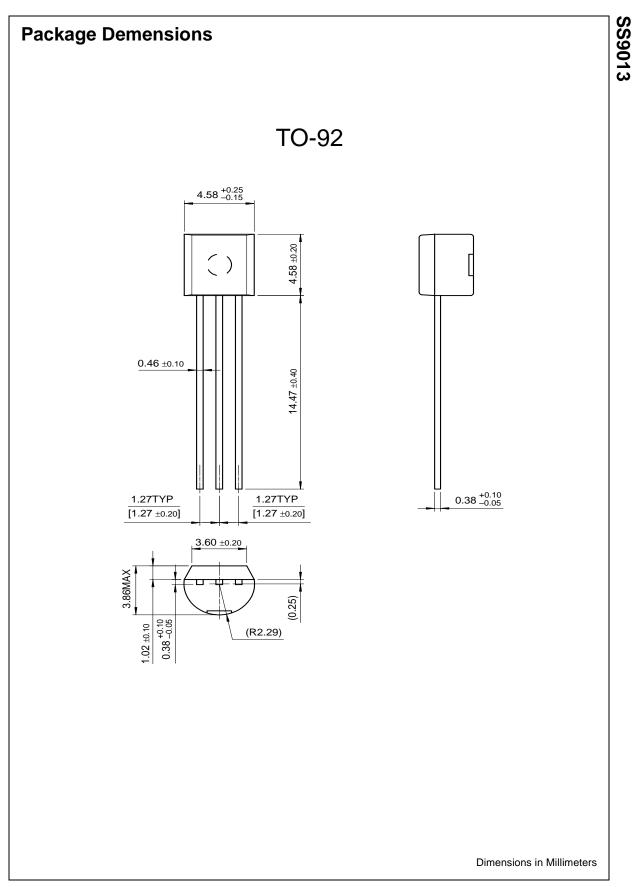
Electrical Characteristics T_a=25°C unless otherwise noted

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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 =1mA, I _B =0	20			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E =100μA, I _C =0	5			V
I _{CBO}	Collector Cut-off Current	V _{CB} =25V, I _E =0			100	nA
I _{EBO}	Emitter Cut-off Current	V _{EB} =3V, I _C =0			100	nA
h _{FE1} h _{FE2}	DC Current Gain	$V_{CE} = 1V$, $I_C = 50mA$ $V_{CE} = 1V$, $I_C = 500mA$	64 40	120 120	202	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C =500mA, I _B =50mA		0.16	0.6	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C =500mA, I _B =50mA		0.91	1.2	V
V _{BE} (on)	Base-Emitter On Voltage	V _{CE} =1V, I _C =10mA	0.6	0.67	0.7	V

h_{FE} Classification

Classification	D	E	F	G	Н
h _{FE1}	64 ~ 91	78 ~ 112	96 ~ 135	112 ~ 166	144 ~ 202





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VCX

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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.

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