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

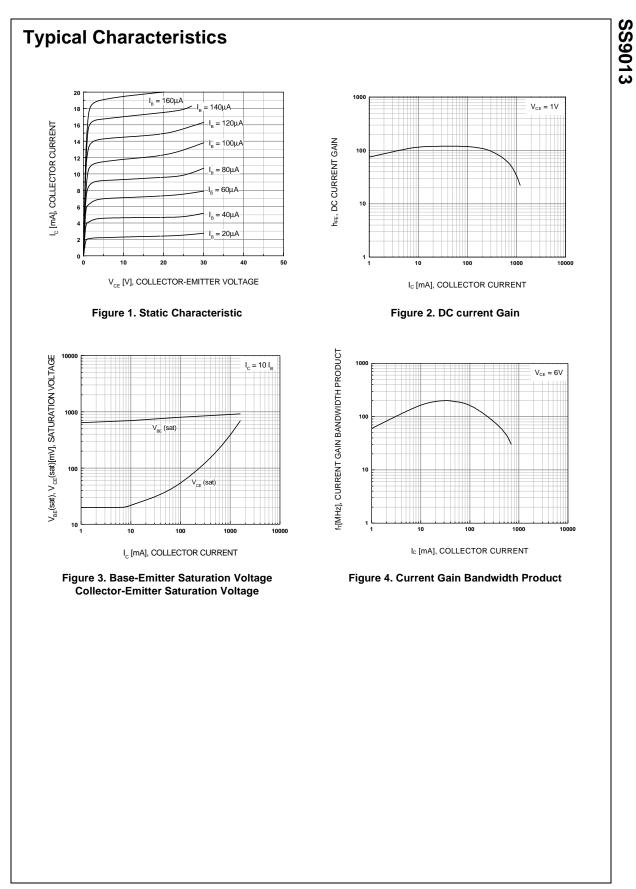
Symbol	Parameter	Ratings	Units	
V _{CBO}	Collector-Base Voltage	40	V	
V _{CEO}	Collector-Emitter Voltage	20	V	
V _{EBO}	Emitter-Base Voltage	5	V	
c	Collector Current	500	mA	
P _C	Collector Power Dissipation	625	mW	
ТJ	Junction Temperature	150	°C	
T _{STG}	Storage Temperature	-55 ~ 150	°C	

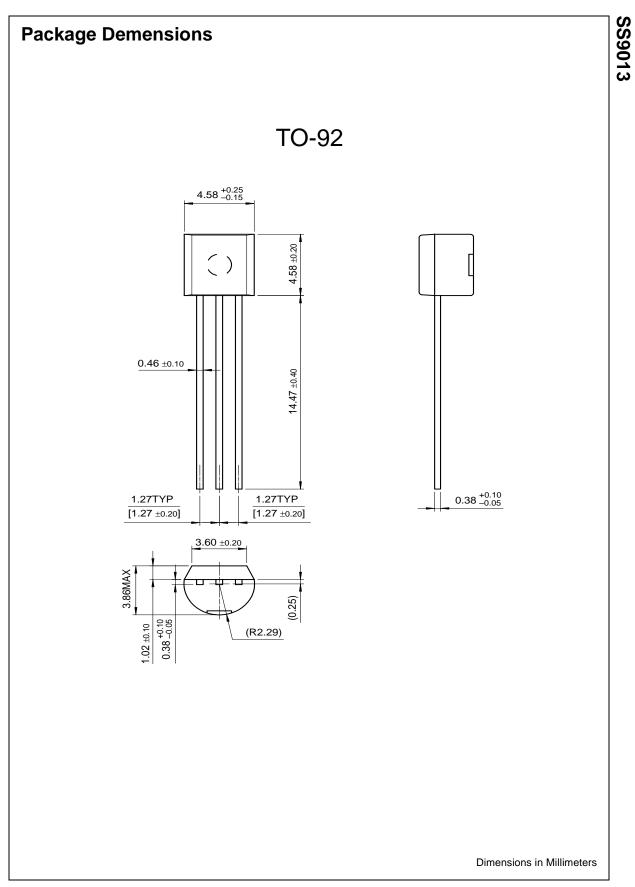
Electrical Characteristics T_a=25°C unless otherwise noted

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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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