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FAIRCHILD

SEMICONDUCTOR®

SS9012

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 SS9013

- Excellent h_{FE} linearity.



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	-20	V	
V _{EBO}	Emitter-Base Voltage	-5	V	
с	Collector Current	-500	mA	
Pc	Collector Power Dissipation	625	mW	
Г _Ј	Junction Temperature	150	°C	
T _{STG}	Storage Temperature	-55 ~ 150	°C	

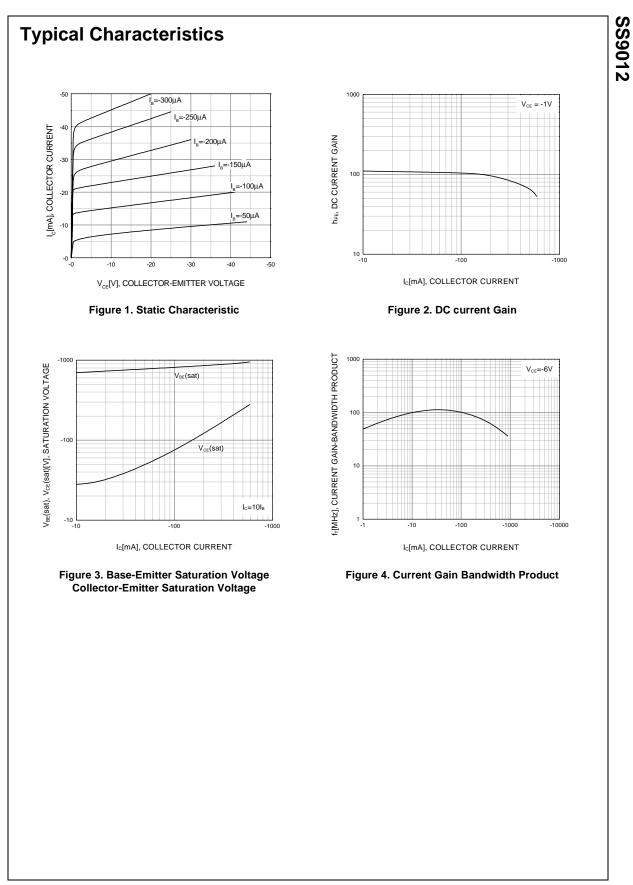
Electrical Characteristics Ta=25°C unless otherwise noted

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 = -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}	DC Current Gain	$V_{CE} = -1V, I_{C} = -50mA$	64	120	202	
h _{FE2}		$V_{CE} = -1V, I_{C} = -500mA$	40	90		
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -500mA, I _B = -50mA		-0.18	-0.6	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = -500mA, I _B = -50mA		-0.95	-1.2	V
V _{BE} (on)	Base-Emitter On Voltage	$V_{CE} = -1V, I_{C} = -10mA$	-0.6	-0.67	-0.7	V

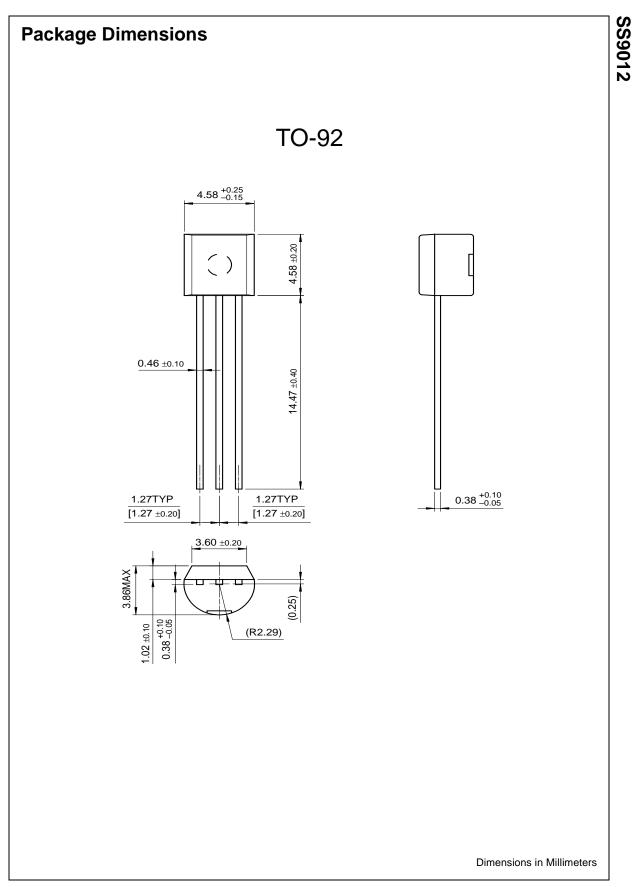
h_{FF} Classification

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

SS9012



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Definition of Terms

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