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	

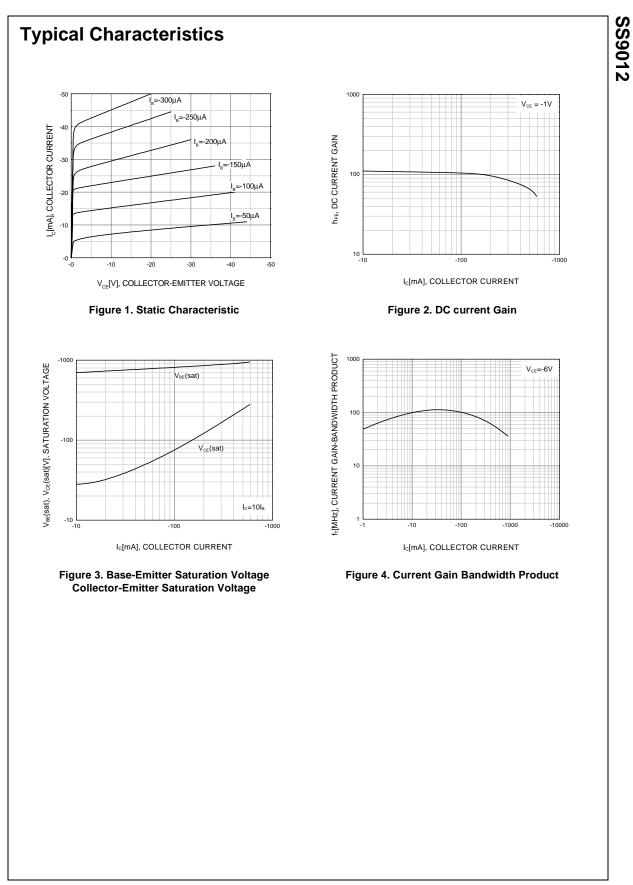
Electrical Characteristics Ta=25°C unless otherwise noted

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

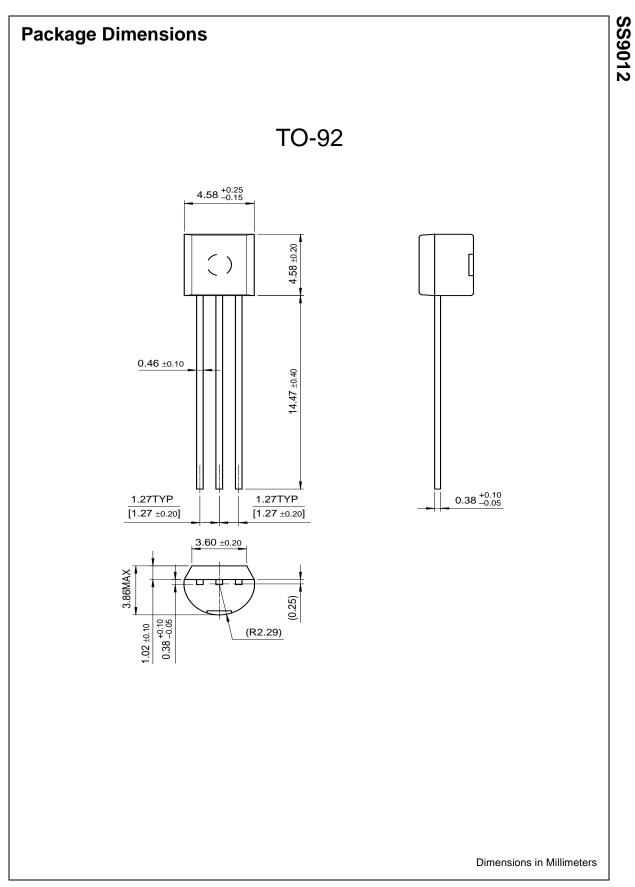
h_{FF} Classification

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

SS9012



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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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