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Fairchild Semiconductor SS9012GBU

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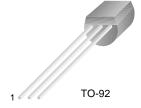




SS9012

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
- $\bullet \ \ \text{Excellent h}_{\text{FE}} \ \text{linearity}.$



1. Emitter 2. Base 3. Collector

PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings Ta=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	
I _C	Collector Current	-500	mA	
P _C	Collector Power Dissipation	625	mW	
TJ	Junction Temperature	150	°C	
T _{STG}	Storage Temperature	-55 ~ 150	°C	

Electrical Characteristics T_a=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	$I_C = -100 \mu A, I_E = 0$	-40			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	$I_C = -1 \text{mA}, I_B = 0$	-20			V
BV _{EBO}	Emitter-Base Breakdown Voltage	$I_E = -100 \mu A, I_C = 0$	-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}		$V_{CE} = -1V, I_{C} = -500 \text{mA}$	40	90		
V _{CE} (sat)	Collector-Emitter Saturation Voltage	$I_C = -500 \text{mA}, I_B = -50 \text{mA}$		-0.18	-0.6	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	$I_C = -500 \text{mA}, I_B = -50 \text{mA}$		-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



Typical Characteristics

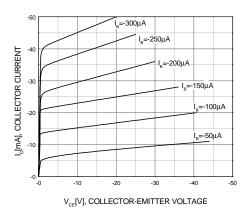


Figure 1. Static Characteristic

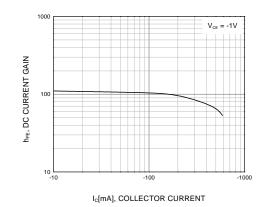


Figure 2. DC current Gain

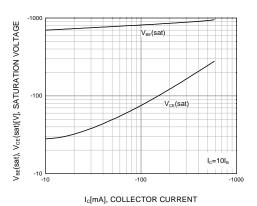


Figure 3. Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

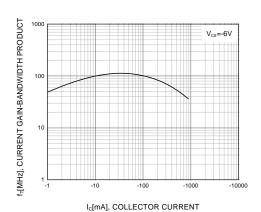
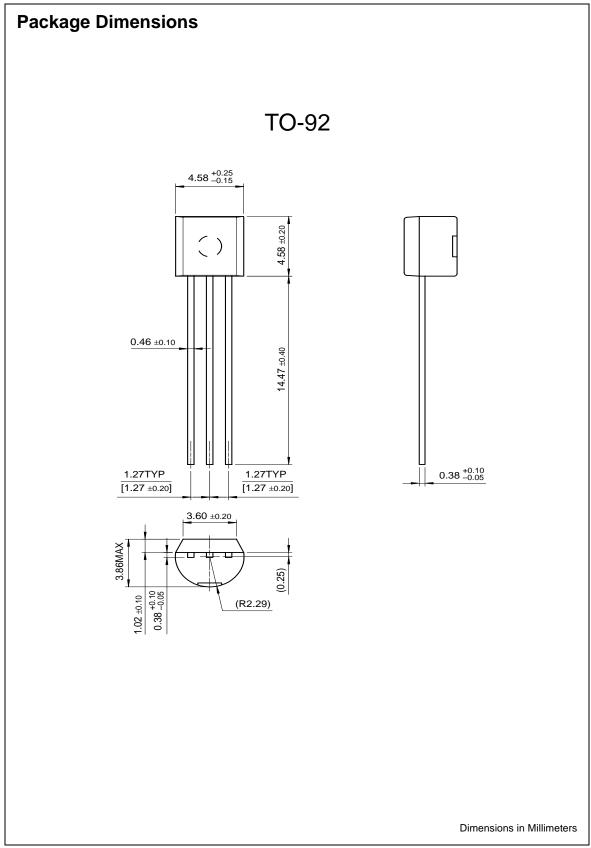


Figure 4. Current Gain Bandwidth Product

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