特力材料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www. 100y. com. tw

SS9012

# WWW.100Y.COM.TW SS9012 WWW.100Y.COM.TW

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

- High total power dissipation. (P<sub>T</sub>=625mW)
- High Collector Current. (I<sub>C</sub>= -500mA)
- Complementary to SS9013

FAIRCHILD SEMICONDUCTOR®

• Excellent h<sub>FE</sub> linearity.

TO-92 166 1. Emitter 2. Base 3. Collector

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# **PNP Epitaxial Silicon Transistor**

Absolute Maximum Ratings Ta=25°C unless otherwise noted

Symbol	Parameter	Ratings	Units
V <sub>CBO</sub>	Collector-Base Voltage	-40	V
V <sub>CEO</sub>	Collector-Emitter Voltage	-20	V
V <sub>EBO</sub>	Emitter-Base Voltage	-5	V
l <sub>c</sub>	Collector Current	-500	mA
P <sub>C</sub>	Collector Power Dissipation	625	mW
T <sub>J</sub>	Junction Temperature	150	°C
T <sub>STG</sub>	Storage Temperature	-55 ~ 150	°C

## **Electrical Characteristics** T<sub>a</sub>=25°C unless otherwise noted

WWW.100

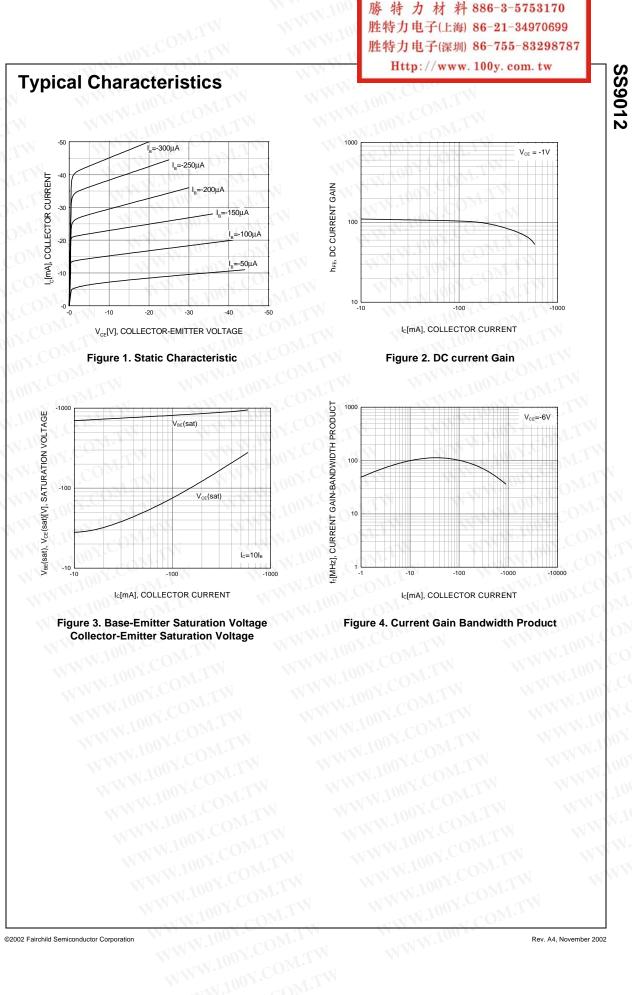
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Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV <sub>CBO</sub>	Collector-Base Breakdown Voltage	I <sub>C</sub> = -100μA, I <sub>E</sub> =0	-40			V
BV <sub>CEO</sub>	Collector-Emitter Breakdown Voltage	I <sub>C</sub> = -1mA, I <sub>B</sub> =0	-20	-1	NN.L	V
BV <sub>EBO</sub>	Emitter-Base Breakdown Voltage	I <sub>E</sub> = -100μA, I <sub>C</sub> =0	-5	N		V
ICBO	Collector Cut-off Current	$V_{CB} = -25V, I_{E} = 0$	W		-100	nA
I <sub>EBO</sub>	Emitter Cut-off Current	$V_{EB} = -3V, I_{C} = 0$			-100	nA
h <sub>FE1</sub> h <sub>FE2</sub>	DC Current Gain	$V_{CE} = -1V, I_{C} = -50mA$ $V_{CE} = -1V, I_{C} = -500mA$	64 40	120 90	202	N.100
V <sub>CE</sub> (sat)	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -500mA, I <sub>B</sub> = -50mA	M.	-0.18	-0.6	V
V <sub>BE</sub> (sat)	Base-Emitter Saturation Voltage	I <sub>C</sub> = -500mA, I <sub>B</sub> = -50mA	TIM	-0.95	-1.2	V
V <sub>BE</sub> (on)	Base-Emitter On Voltage	$V_{CE} = -1V, I_{C} = -10mA$	-0.6	-0.67	-0.7	V

# h<sub>FE</sub> Classification

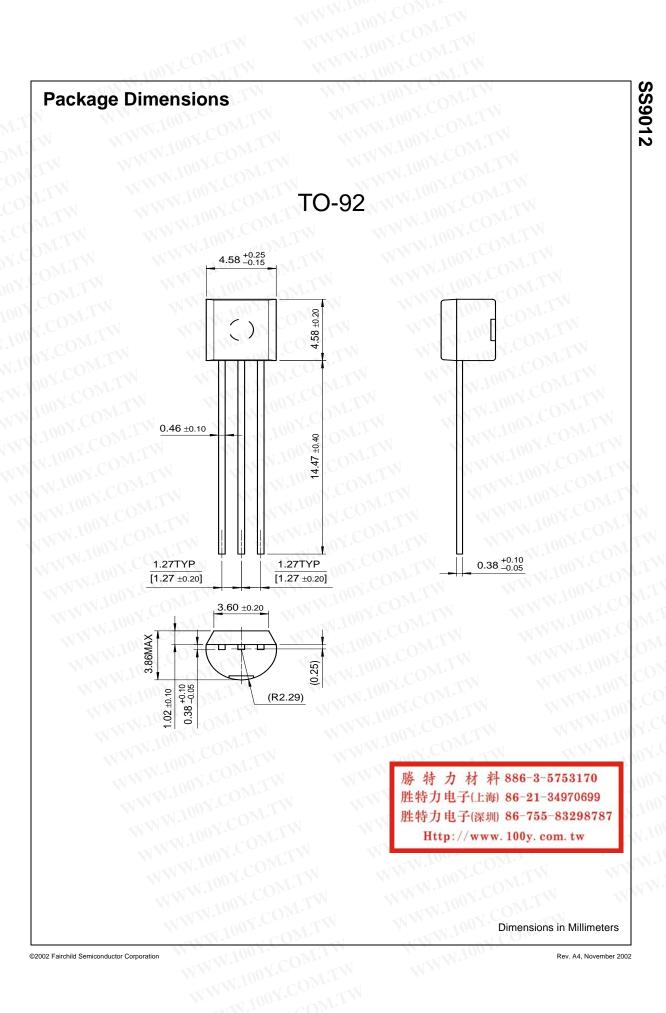
				I. S.	
Classification	D	E	E OV	G	Н
h <sub>FE1</sub>	64 ~ 91	78 ~ 112	96 ~ 135	112 ~ 166	144 ~ 202
	Too COM		W.In	COM.	AV.

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EcoSPARK™	GTO™	MSX™	QT Optoelectronics™	TinyLogic™
E <sup>2</sup> CMOS <sup>™</sup>	HiSeC™	MSXPro™	Quiet Series <sup>™</sup>	TruTranslation™
EnSigna™	I <sup>2</sup> C <sup>™</sup>	OCX™	RapidConfigure™	UHC™
Across the board.	Around the world.™	OCXPro™	RapidConnect™	UltraFET <sup>®</sup>
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Programmable Ac	tive Droop™	OPTOPLANAR™	SMART START™	

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### **Definition of Terms**

Datasheet Identification	Product Status	Definition		
Advance Information	Formative or In Design	This datasheet contains the design specifications for product development. Specifications may change in any manner without notice.		
Preliminary	First Production	This datasheet contains preliminary data, and supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.		
No Identification Needed Full Production		This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.		
Obsolete	Not In Production	This datasheet contains specifications on a product that has been discontinued by Fairchild semiconductor The datasheet is printed for reference information only		

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