KSA1182

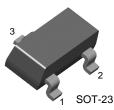
## FAIRCHILD

SEMICONDUCTOR®

# KSA1182

### Low Frequency Power Amplifier

Complement to KSC2859



1. Base 2. Emitter 3. Collector

## **PNP Epitaxial Silicon Transistor**

### Absolute Maximum Ratings $T_a=25$ °C unless otherwise noted

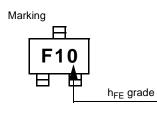
Symbol	Parameter	Ratings	Units	
V <sub>CBO</sub>	Collector-Base Voltage	-35	V	
V <sub>CEO</sub>	Collector-Emitter Voltage	-30	V	
V <sub>CEO</sub> V <sub>EBO</sub>	Emitter-Base Voltage	-5	V	
c	Collector Current	-500	mA	
P <sub>C</sub>	Collector Power Dissipation	150	mW	
Т <sub>Ј</sub>	Junction Temperature	150	°C	
T <sub>STG</sub>	Storage Temperature	-55 ~ 150	°C	

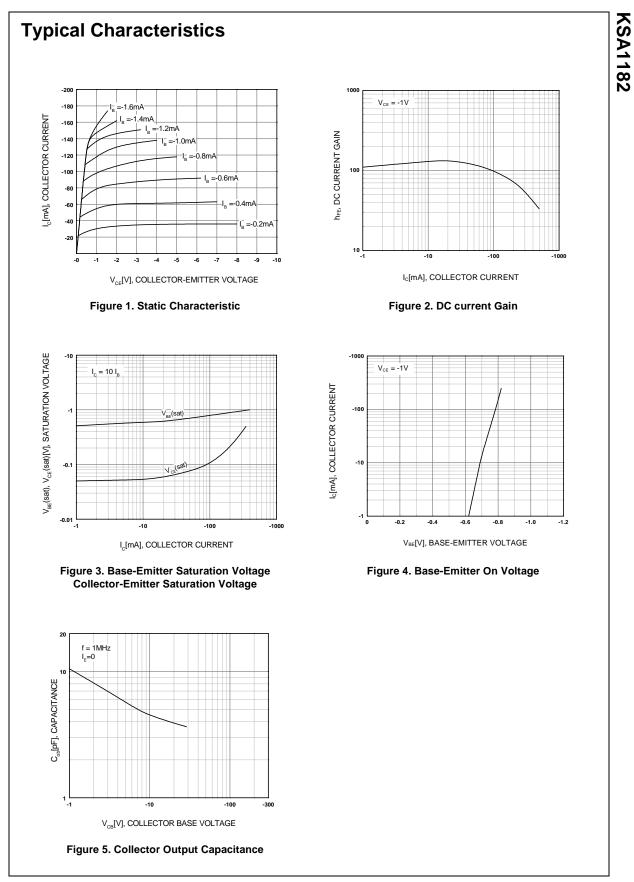
### **Electrical Characteristics** $T_a=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
I <sub>CBO</sub>	Collector Cut-off Current	V <sub>CB</sub> = -35V, I <sub>E</sub> =0			-0.1	μΑ
I <sub>EBO</sub>	Emitter Cut-off Current	V <sub>EB</sub> = -5V, I <sub>C</sub> =0			-0.1	μΑ
h <sub>FE1</sub>	DC Current Gain	V <sub>CE</sub> = -1V, I <sub>C</sub> = -100mA	70		240	
h <sub>FE2</sub>		V <sub>CE</sub> = -6V, I <sub>C</sub> = -400mA	25			
V <sub>CE</sub> (sat)	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -100mA, I <sub>B</sub> = -10mA		-0.1	-0.25	V
V <sub>BE</sub> (on)	Base-Emitter On Voltage	V <sub>CE</sub> = -1V , I <sub>C</sub> = -100mA		-0.8	-1.0	V
f <sub>T</sub>	Current Gain Bandwidth Product	V <sub>CE</sub> = -6V, I <sub>C</sub> = -20mA		200		MHz
C <sub>ob</sub>	Output Capacitance	V <sub>CB</sub> = -6V, I <sub>E</sub> = 0, f=1MHz		13		pF

### h<sub>FE</sub> Classification

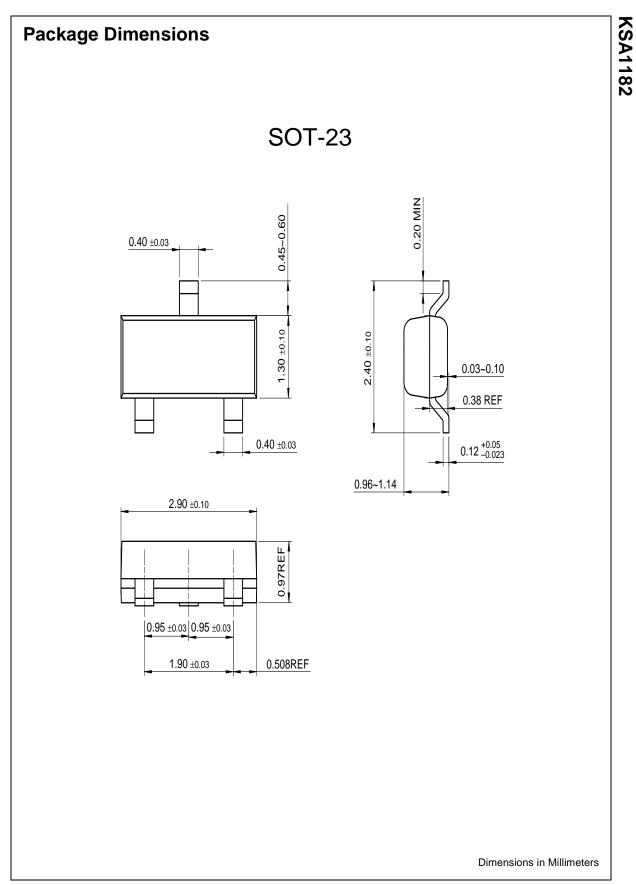
Classification	0	Y	
h <sub>FE1</sub>	70 ~ 140	120 ~ 240	





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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.

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#### **Definition of Terms**

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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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