# FAIRCHILD

SEMICONDUCTOR®

# **KSA1150**

## Low Frequency Power Amplifier

- Collector Dissipation : P<sub>C</sub> = 300mW
  Complement to KSC2710



1.Emitter 2. Collector 3. Base

# **PNP Epitaxial Silicon Transistor**

Absolute Maximum Ratings  $T_a=25^{\circ}C$  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
I <sub>C</sub>	Collector Current (DC)	-500	mA
I <sub>CP</sub>	* Collector Current (Pulse)	-700	mA
P <sub>C</sub>	Collector Power Dissipation	300	mW
TJ	Junction Temperature	150	°C
T <sub>STG</sub>	Storage Temperature	-55 ~ 150	°C

\* PW≤350ms, Duty cycle≤50%

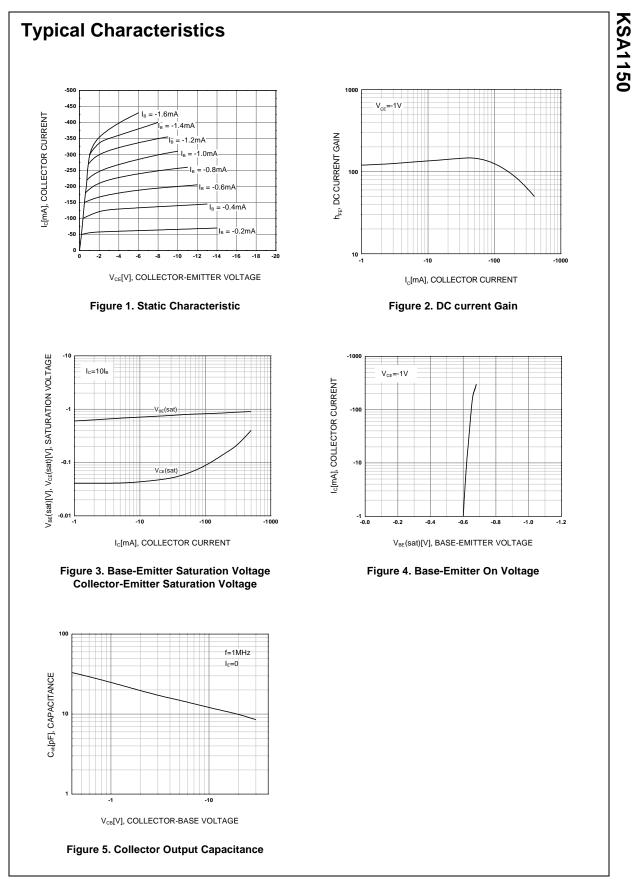
## Electrical Characteristics T<sub>a</sub>=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV <sub>CBO</sub>	Collector-Base Breakdown Voltage	I <sub>C</sub> = -100μΑ, I <sub>E</sub> =0	-40			V
BV <sub>CEO</sub>	Collector-Emitter Breakdown Voltage	I <sub>C</sub> = -10mA, I <sub>B</sub> =0	-20			V
BV <sub>EBO</sub>	Emitter-Base Breakdown Voltage	I <sub>E</sub> = -100μA, I <sub>C</sub> =0	-5			V
I <sub>CBO</sub>	Collector Cut-off Current	V <sub>CB</sub> = -25V, I <sub>E</sub> =0			-100	nA
I <sub>EBO</sub>	Emitter Cut-off Current	V <sub>EB</sub> = -3V, I <sub>C</sub> =0			-100	nA
h <sub>FE</sub>	* DC Current Gain	V <sub>CE</sub> = -1V, I <sub>C</sub> = -100mA	40		400	
V <sub>CE</sub> (sat)	* Collector-Emitter Saturation Voltage	I <sub>C</sub> = -500mA, I <sub>B</sub> = -50mA		-0.3	-0.4	V
V <sub>BE</sub> (sat)	* Base-Emitter Saturation Voltage	I <sub>C</sub> = -500mA, I <sub>B</sub> = -50mA		-1.0	-1.3	V

\* Pulse Test: PW≤350µs, Duty cycle≤2%

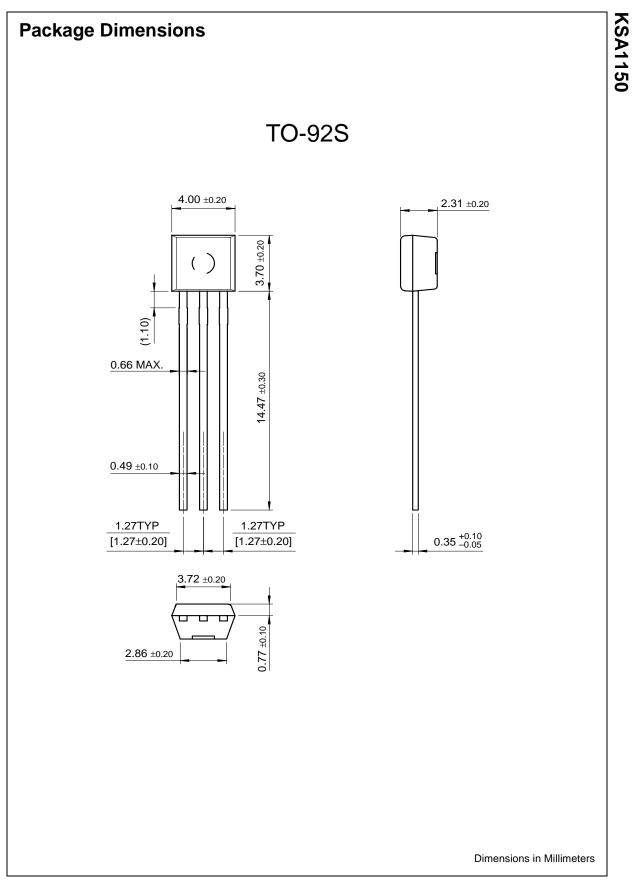
## h<sub>FE</sub> Classification

Classification	R	0	Y	G
h <sub>FE</sub>	40 ~ 80	70 ~ 140	120 ~ 240	200 ~ 400



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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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Datasheet Identification	Product Status	Definition
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