# 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%

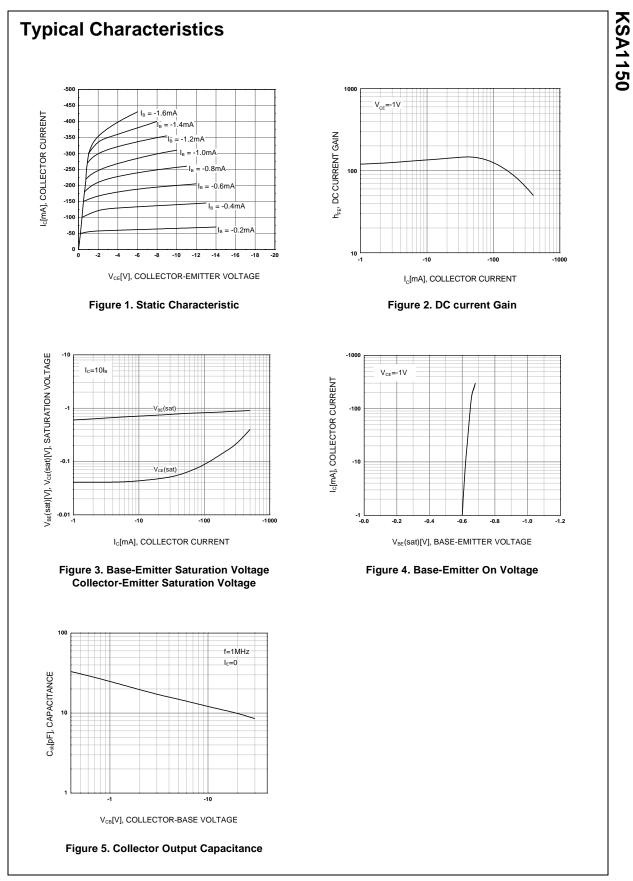
### Electrical Characteristics T<sub>a</sub>=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV <sub>CBO</sub>	Collector-Base Breakdown Voltage	I <sub>C</sub> = -100μA, 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%

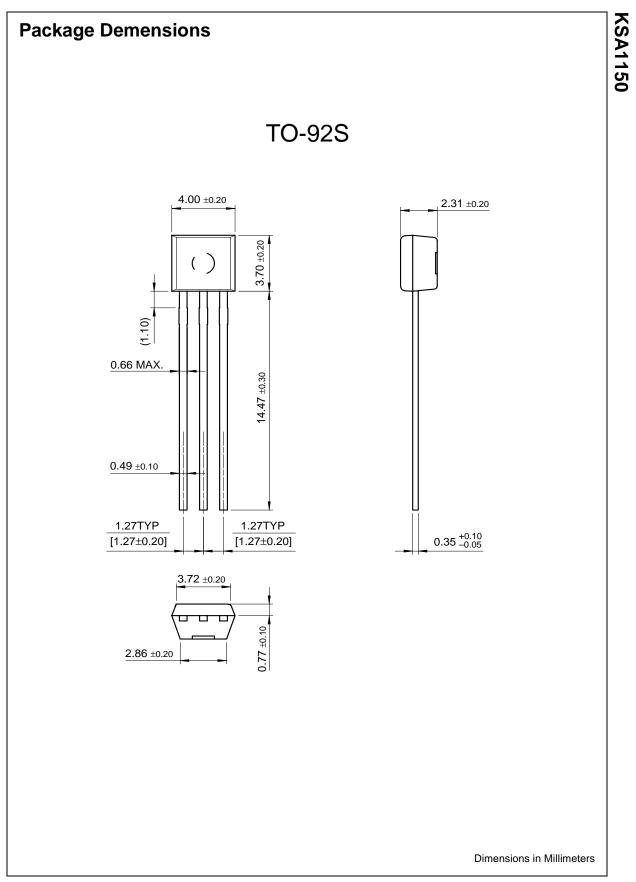
## h<sub>FE</sub> Classification

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



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Rev. A1, June 2001



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Datasheet Identification	Product Status	Definition		
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technical information	Product status/pricing/packaging		

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Ī	Product	Product status	Pricing*	Package type	Leads	Packing method
믁	KSA1150YTA	Full Production	\$0.063	<u>TO-92S</u>	3	TAPE REEL
4	KSA1150OTA	Full Production	\$0.063	<u>TO-92S</u>	3	TAPE REEL
4	KSA1150OBU	Full Production	\$0.063	<u>TO-92S</u>	3	BULK
	KSA1150YBU	Full Production	\$0.063	<u>TO-92S</u>	3	BULK

\* 1,000 piece Budgetary Pricing

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