# FAIRCHILD

SEMICONDUCTOR®

# KSC3488

## Low Frequency Power Amplifier

- Complement to KSA1378
- Collector Dissipation : P<sub>C</sub>=300mW



1.Emitter 2. Collector 3. Base

# **NPN Epitaxial Silicon Transistor**

Absolute Maximum Ratings  $T_a=25^{\circ}C$  unless otherwise noted

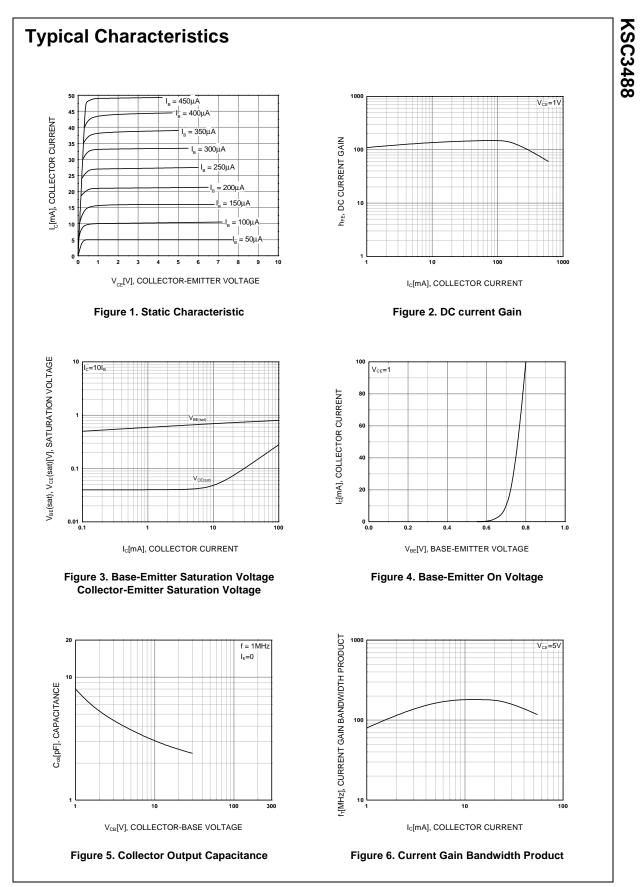
Symbol	Parameter	Value	Units
V <sub>CBO</sub>	Collector-Base Voltage	30	V
V <sub>CEO</sub>	Collector-Emitter Voltage	25	V
V <sub>EBO</sub>	Emitter-Base Voltage	5	V
I <sub>C</sub>	Collector Current	300	mA
P <sub>C</sub>	Collector Power Dissipation	300	mW
TJ	Junction Temperature	150	°C
T <sub>STG</sub>	Storage Temperature	-55 ~ 150	°C

## Electrical Characteristics Ta=25°C unless otherwise noted

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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	30			V
BV <sub>CEO</sub>	Collector-Emitter Breakdown Voltage	I <sub>C</sub> =10mA, I <sub>B</sub> =0	25			V
BV <sub>EBO</sub>	Emitter-Base Breakdown Voltage	I <sub>E</sub> =10μA, 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			0.1	μΑ
I <sub>EBO</sub>	Emitter Cut-off Current	V <sub>EB</sub> =3V, I <sub>C</sub> =0			0.1	μΑ
h <sub>FE</sub>	DC Current Gain	V <sub>CE</sub> =1V, I <sub>C</sub> =50mA	70		400	
V <sub>CE</sub> (sat)	Collector-Emitter Saturation Voltage	I <sub>C</sub> =300mA, I <sub>B</sub> =30mA		0.14	0.4	V

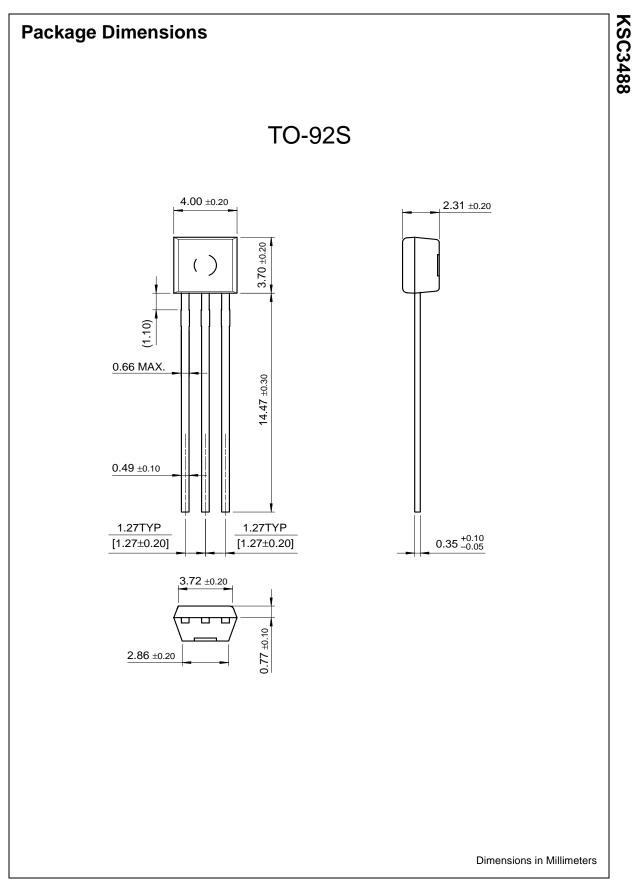
## h<sub>FE</sub> Classification

Classification	0	Y	G
h <sub>FE</sub>	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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