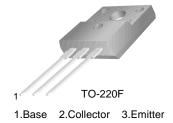


## **KSB1366**

### LOW FREQUENCY POWER AMPLIFIER

• Complement to KSD2012



# **PNP Epitaxial Silicon Transistor**

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

Symbol	Parameter	Value	Units
$V_{CBO}$	Collector-Base Voltage	- 60	V
V <sub>CEO</sub>	Collector-Emitter Voltage	- 60	V
V <sub>EBO</sub>	Emitter-Base Voltage	- 7	V
I <sub>C</sub>	Collector Current(DC)	- 3	А
I <sub>B</sub>	Base Current	- 0.5	А
P <sub>C</sub>	Collector Dissipation (T <sub>a</sub> =25°C)	2	W
P <sub>C</sub>	Collector Dissipation (T <sub>C</sub> =25°C)	25	W
T <sub>J</sub>	Junction Temperature	150	°C
T <sub>STG</sub>	Storage Temperature	- 55 ~ 150	°C

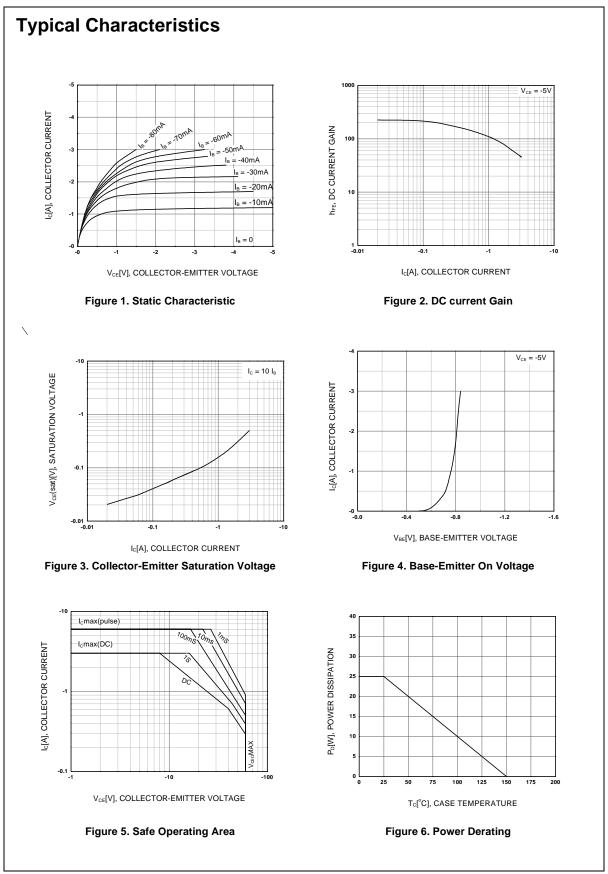
## Electrical Characteristics T<sub>C</sub>=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV <sub>CEO</sub>	Collector-Emitter Breakdown Voltage	$I_C = -50 \text{mA}, I_B = 0$	- 60			V
I <sub>CBO</sub>	Collector Cut-off Current	$V_{CB} = -60V, I_{E} = 0$			- 100	μΑ
I <sub>EBO</sub>	Emitter Cut-off Current	$V_{EB} = -7V, I_{C} = 0$			- 100	μΑ
h <sub>FE1</sub>	DC Current Gain	$V_{CE} = -5V, I_{C} = -0.5A$	100		320	
h <sub>FE2</sub>		$V_{CE} = -5V, I_{C} = -3A$	20			
V <sub>CE</sub> (sat)	Collector-Emitter Saturation Voltage	$I_C = -2A, I_B = -0.2A$		- 0.5	- 1	V
V <sub>BE</sub> (on)	Base-Emitter ON Voltage	$V_{CE} = -5V, I_{C} = -0.5A$		- 0.7	- 1	V
f <sub>T</sub>	Current Gain Bandwidth Product	$V_{CE} = -5V, I_{C} = -0.5A$		9		MHz

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

Classification	Υ	G	
h <sub>FE1</sub>	100 ~ 200	150 ~ 320	

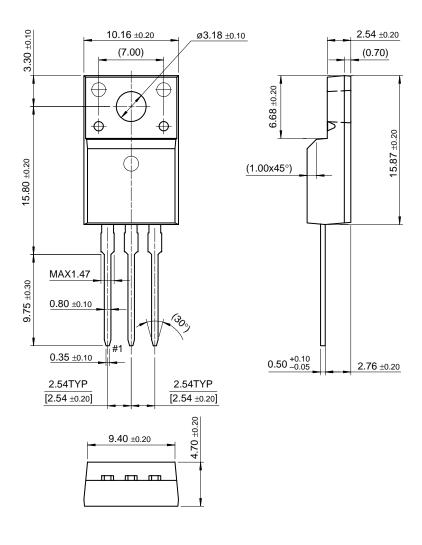
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# **Package Demensions**

# TO-220F



Dimensions in Millimeters

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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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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.
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