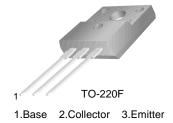


## **KSB1366**

### 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 <sub>CBO</sub>	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	

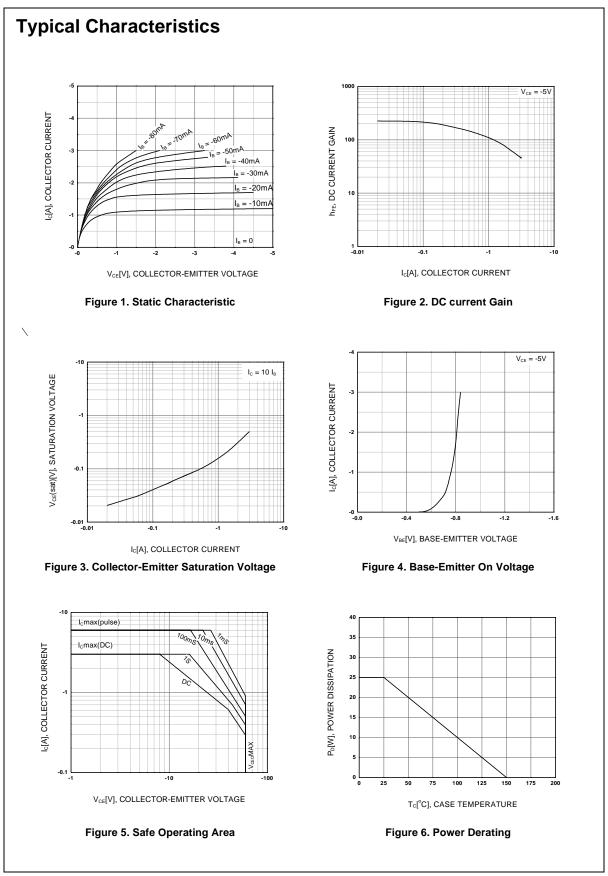
### Electrical Characteristics T<sub>C</sub>=25°C unless otherwise noted

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

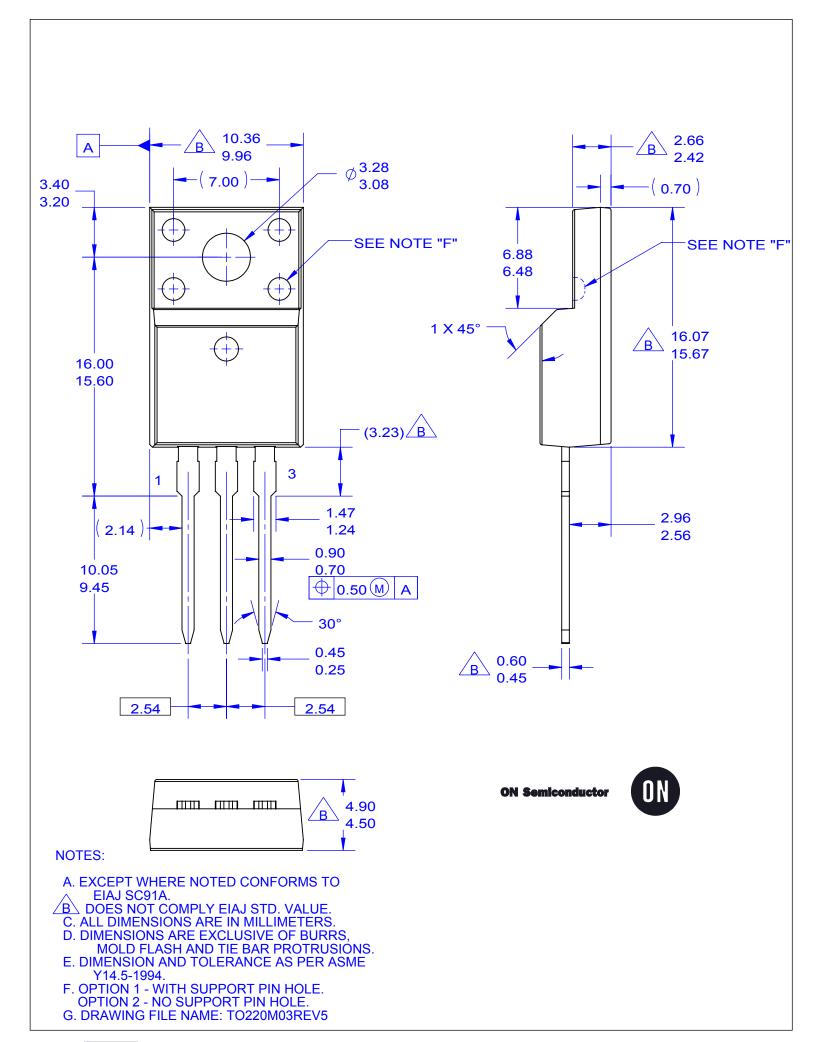
# **h**<sub>FE</sub> Classification

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

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