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### **KSB1015**

#### Low Frequency Power Amplifier

- Low Collector Emitter Saturation Voltage
- Complement to KSD1406



1.Base 2.Collector 3.Emitter

## **PNP Epitaxial Silicon Transistor**

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	
lc	Collector Current(DC)	- 3	А	
в	Base Current	- 0.5	А	
Pc	Collector Dissipation (T <sub>C</sub> =25°C)	25	W	
Т <sub>Ј</sub>	Junction Temperature	150	°C	
T <sub>STG</sub>	Storage Temperature	- 55 ~ 150	°C	

#### Absolute Maximum Ratings T<sub>C</sub>=25°C unless otherwise noted

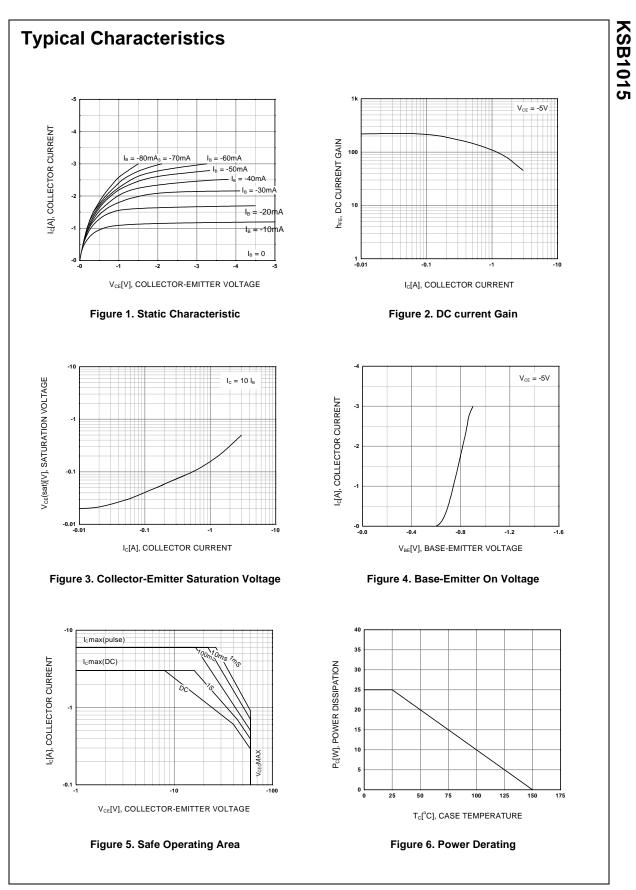
#### Electrical Characteristics $T_C=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV <sub>CEO</sub>	Collector-Emitter Breakdown Voltage	I <sub>C</sub> = - 50mA, I <sub>B</sub> = 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> h <sub>FE2</sub>	DC Current Gain	$V_{CE} = -5V, I_{C} = -0.5A$ $V_{CE} = -5V, I_{C} = -3A$	60 20		200	
V <sub>CE</sub> (sat)	Collector-Emitter Saturation Voltage	$I_{\rm C} = -3A, I_{\rm B} = -0.3A$		- 0.5	- 1	V
V <sub>BE</sub> (on)	Base-Emitter ON Voltage	V <sub>CE</sub> = - 5V, I <sub>C</sub> = - 0.5A		- 0.7	- 1	V
f <sub>T</sub>	Current Gain Bandwidth Product	V <sub>CE</sub> = - 5V, I <sub>C</sub> = - 0.5A		9		MHz
C <sub>ob</sub>	Output Capacitance	V <sub>CB</sub> = - 10V, f = 1MHz		150		pF
t <sub>ON</sub>	Turn ON Time	V <sub>CC</sub> = - 30V, I <sub>C</sub> = - 1A		0.4		μs
t <sub>STG</sub>	Storage Time	$I_{B1} = -I_{B2} = -0.2A$		1.7		μs
t <sub>F</sub>	Fall Time	$R_L = 30\Omega$		0.5		μs

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

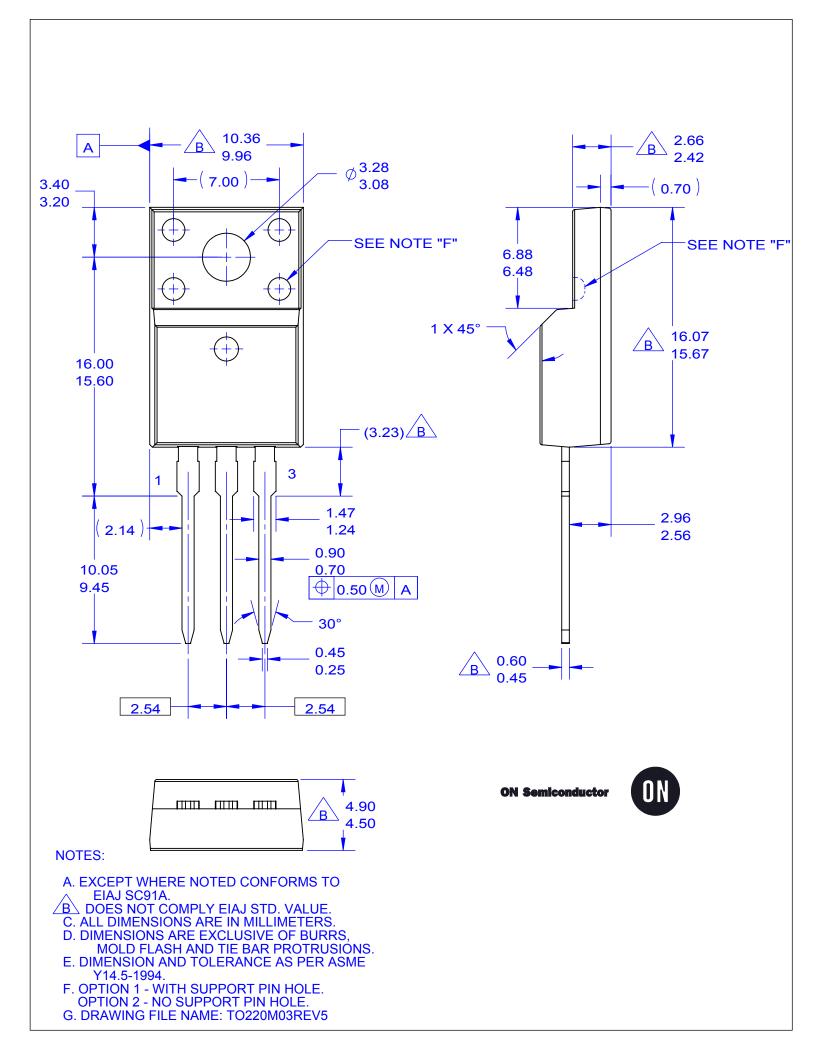
Classification	0	Y
h <sub>FE1</sub>	60 ~ 120	100 ~ 200

# KSB1015



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