

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 _{CBO}	Collector-Base Voltage	- 60	V	
V _{CEO}	Collector-Emitter Voltage	- 60	V	
V _{EBO}	Emitter-Base Voltage	- 7	V	
lc	Collector Current(DC)	- 3	Α	
в	Base Current	- 0.5	А	
Pc	Collector Dissipation (T _C =25°C)	25	W	
ТJ	Junction Temperature	150	°C	
T _{STG}	Storage Temperature	- 55 ~ 150	°C	

Absolute Maximum Ratings T_C=25°C unless otherwise noted

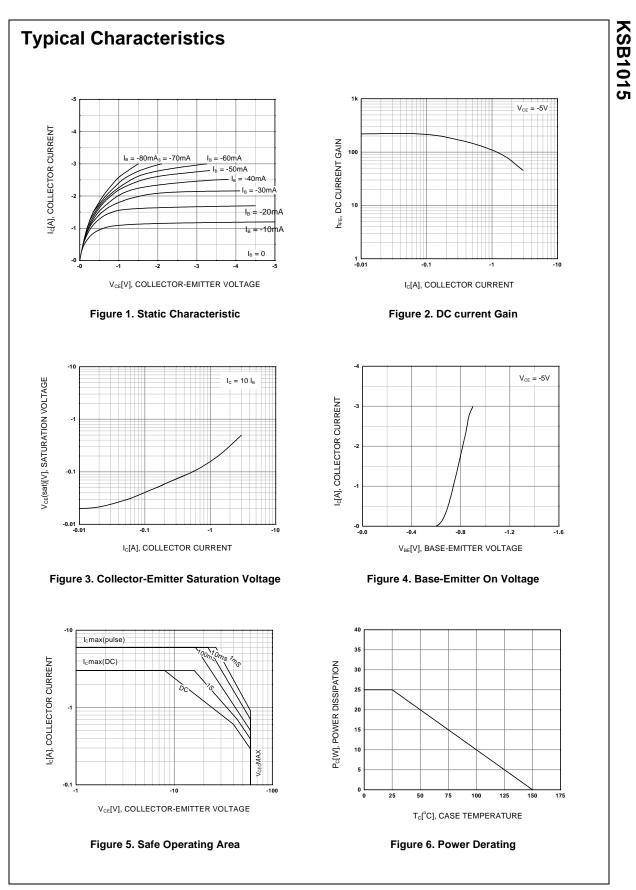
Electrical Characteristics $T_C=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = - 50mA, I _B = 0	- 60			V
I _{CBO}	Collector Cut-off Current	$V_{CB} = -60V, I_E = 0$			- 100	μΑ
I _{EBO}	Emitter Cut-off Current	$V_{EB} = -7V, I_{C} = 0$			- 100	μΑ
h _{FE1} h _{FE2}	DC Current Gain	$V_{CE} = -5V, I_{C} = -0.5A$ $V_{CE} = -5V, I_{C} = -3A$	60 20		200	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	$I_{\rm C} = -3A, I_{\rm B} = -0.3A$		- 0.5	- 1	V
V _{BE} (on)	Base-Emitter ON Voltage	V _{CE} = - 5V, I _C = - 0.5A		- 0.7	- 1	V
f _T	Current Gain Bandwidth Product	V _{CE} = - 5V, I _C = - 0.5A		9		MHz
C _{ob}	Output Capacitance	V _{CB} = - 10V, f = 1MHz		150		pF
t _{ON}	Turn ON Time	V _{CC} = - 30V, I _C = - 1A		0.4		μs
t _{STG}	Storage Time	$I_{B1} = -I_{B2} = -0.2A$		1.7		μs
t _F	Fall Time	$R_L = 30\Omega$		0.5		μs

h_{FE} Classification

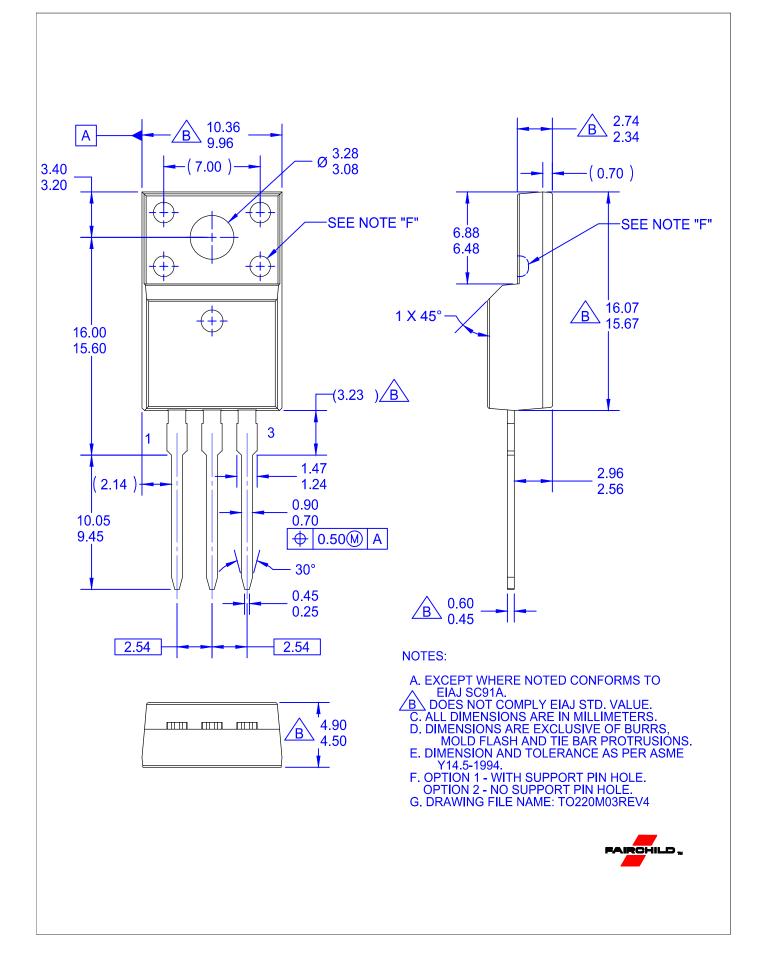
Classification	0	Y
h _{FE1}	60 ~ 120	100 ~ 200

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