

KSB1366

LOW FREQUENCY POWER AMPLIFIER

Complement to KSD2012



1.Base 2.Collector 3.Emitter

PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings T_C=25°C unless otherwise noted

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
Ic	Collector Current(DC)	- 3	А
IB	Base Current	- 0.5	A
P _C	Collector Dissipation (T _a =25°C)	2	W
P _C	Collector Dissipation (T _C =25°C)	25	W
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 55 ~ 150	°C

Electrical Characteristics T_C=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CEO}	Collector-Emitter Breakdown Voltage	$I_C = -50 \text{mA}, I_B = 0$	- 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}	DC Current Gain	$V_{CE} = -5V, I_{C} = -0.5A$	100		320	- 10
h _{FE2}		$V_{CE} = -5V, I_{C} = -3A$	20			
V _{CE} (sat)	Collector-Emitter Saturation Voltage	$I_C = -2A, I_B = -0.2A$		- 0.5	- 1	V
V _{BE} (on)	Base-Emitter ON Voltage	$V_{CE} = -5V, I_{C} = -0.5A$		- 0.7	117	V
f _T	Current Gain Bandwidth Product	$V_{CE} = -5V, I_{C} = -0.5A$	MAR	9		MHz

h_{FE} Classification

Classification	Y	G	
h _{FE1}	100 ~ 200	150 ~ 320	

Typical Characteristics

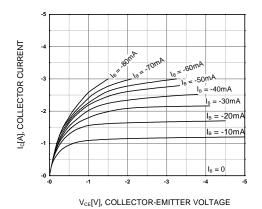


Figure 1. Static Characteristic

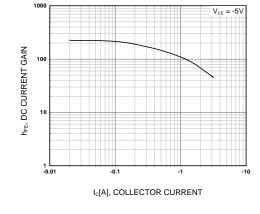


Figure 2. DC current Gain

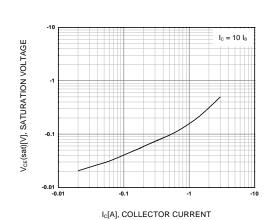


Figure 3. Collector-Emitter Saturation Voltage

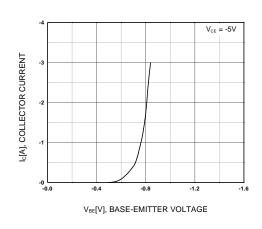


Figure 4. Base-Emitter On Voltage

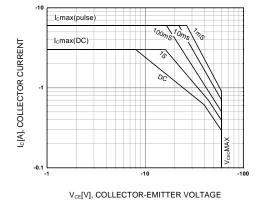


Figure 5. Safe Operating Area

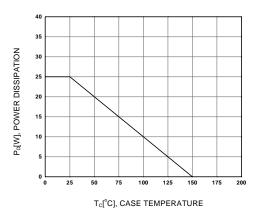
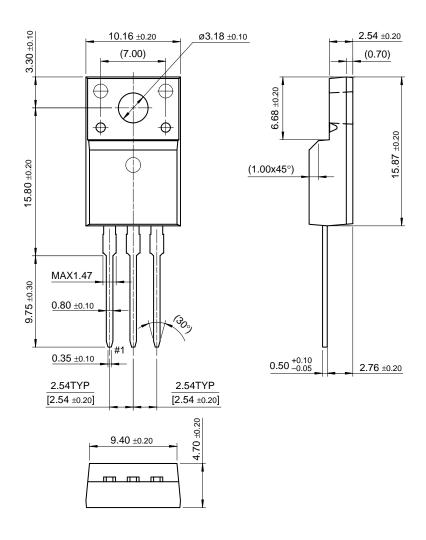


Figure 6. Power Derating

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Package Demensions

TO-220F



Dimensions in Millimeters

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