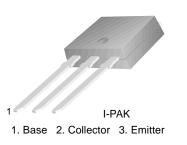
FAIRCHILD

SEMICONDUCTOR®

KSB906

Low Frequency Power Amplifier

- Low Collector- Emitter Saturation Voltage
- Complement to KSD1221



PNP Epitaxial Silicon Transistor

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

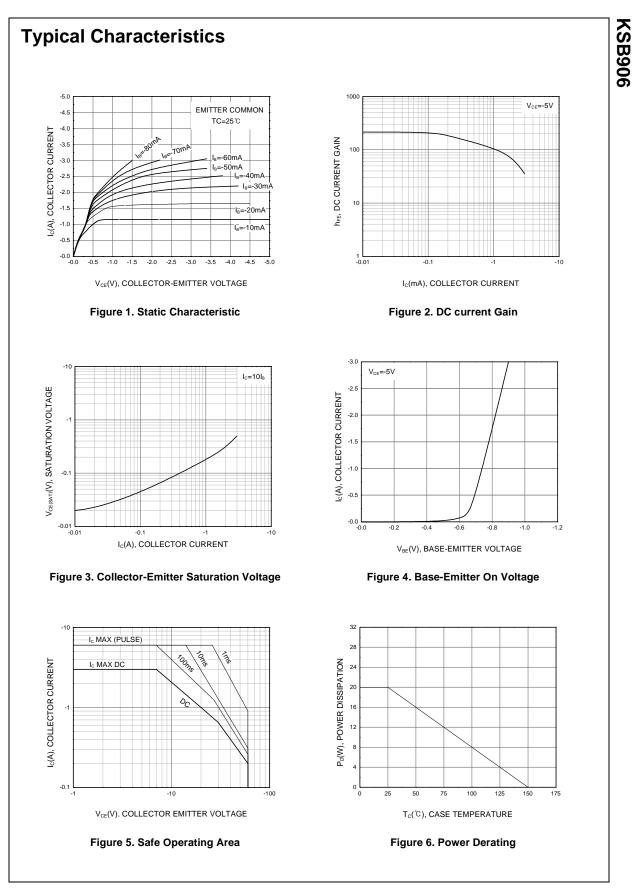
Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	- 60	V
V _{CEO}	Collector-Emitter Voltage	- 60	V
V _{EBO}	Emitter-Base Voltage	- 7	V
I _C	Collector Current	- 3	A
I _B	Base Current	- 0.5	A
	Collector Dissipation (T _C =25°C)	20	W
P _C P _C	Collector Dissipation (T _a =25°C)	1	W
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 55 ~ 150	°C

Electrical Characteristics T_C=25°C unless otherwise noted

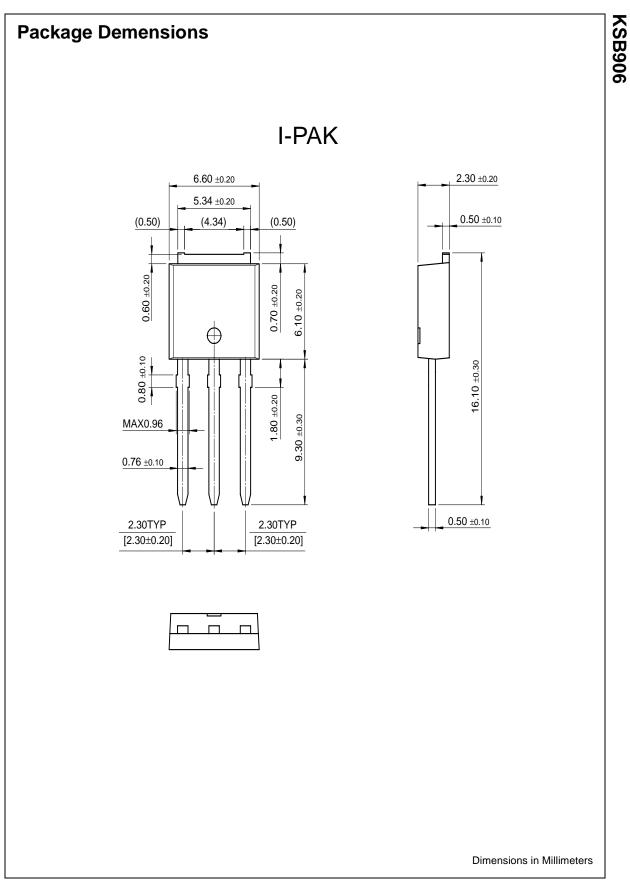
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = - 50mA, I _B = 0	- 60			V
I _{CBO}	Collector Cut-off Current	$V_{CB} = -60V, I_{E} = 0$			- 100	μΑ
I _{EBO}	Emitter Cut-off Current	$V_{EB} = -7V, I_{C} = 0$			- 100	μA
h _{FE1} h _{FE2}	DC Current 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 _C = - 3A, I _B = - 0.3A		- 1	- 1.7	V
V _{BE} (on)	Base-Emitter ON Voltage	V _{CE} = - 5V, I _C = - 0.1A		- 1	- 1.5	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 _{FE}	60 ~ 120	100 ~ 200	



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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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