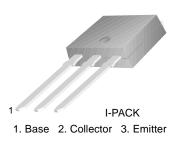
FAIRCHILD

SEMICONDUCTOR TM

KSB907

Power Amplifier Applications

- High DC Current Gain
- Low Collector-Emitter Saturation Voltage
- Built-in Damper Diode at E-C
- Darlington TR
- Complement to KSD1222



PNP Silicon Darlington Transistor

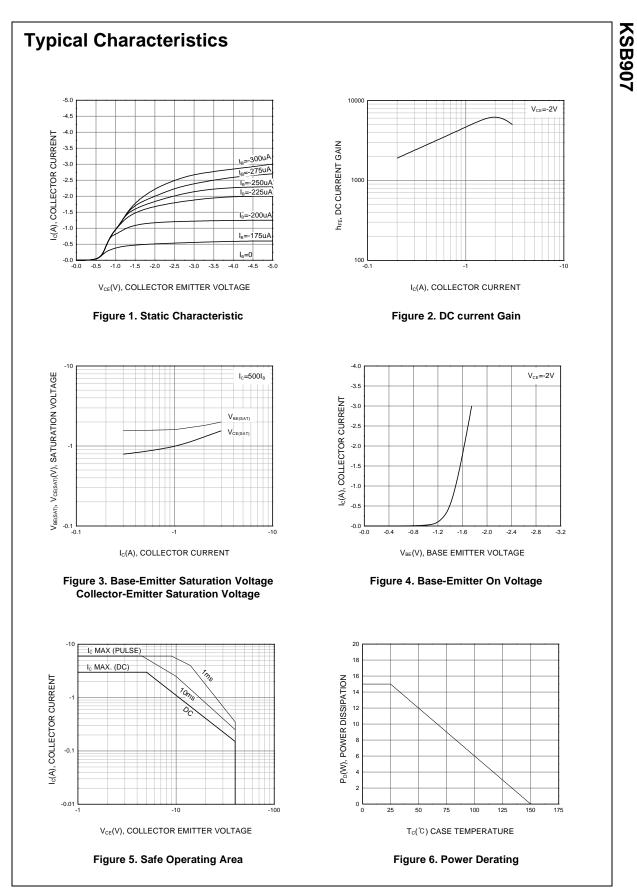
Absolute Maximum Ratings $T_{C}=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	- 60	V
V _{CEO}	Collector-Emitter Voltage	- 40	V
V _{EBO}	Emitter-Base Voltage	- 5	V
I _C	Collector Current(DC)	- 3	А
I _B	Base Current	- 0.3	А
P _C	Collector Dissipation (T _a =25°C)	15	W
P _C P _C	Collector Dissipation (T _C =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

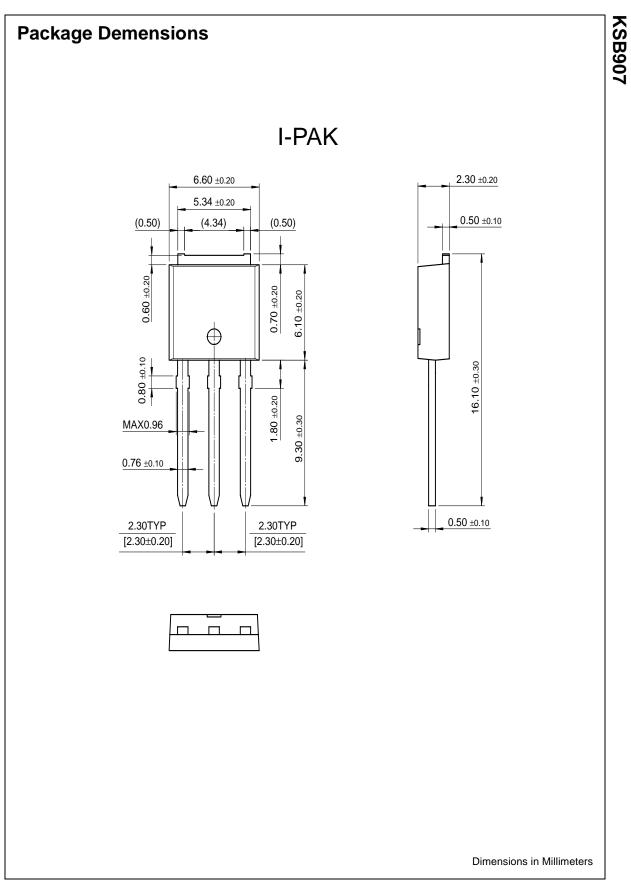
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CEO}	Collector- Emitter Breakdown Voltage	I _C = - 25mA, I _B = 0	- 40			V
I _{CBO}	Collector Cut-off Current	$V_{CB} = -60V, I_E = 0$			- 20	μΑ
I _{EBO}	Emitter Cut-off Current	$V_{EB} = -5V, I_{C} = 0$			- 2.5	μA
h _{FE1} h _{FE2}	DC Current Gain	$V_{CE} = -2V, I_C = -1A$ $V_{CE} = -2V, I_C = -3A$	2000 1000			
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = - 2A, I _B = - 4mA			- 1.5	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = - 2A, I _B = - 4mA			- 2	V
t _{ON}	Turn ON Time	V _{CC} = - 30V, I _C = - 3A		0.3		μs
t _{STG}	Storage Time	$I_{B1} = -I_{B2} = -6mA$		0.6		μs
t _F	Fall Time	$R_L = 10\Omega$		0.25		μs

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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.

PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
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No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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