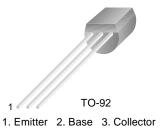
FAIRCHILD

SEMICONDUCTOR®

KSB564A

Audio Frequency Power Amplifier

- Complement to KSD471A
- Collector Current : I_C = -1A
- Collector Power Dissipation : $P_C = 800 \text{mW}$
- Suffix "-C" means Center Collector (1. Emitter 2. Collector 3. Base)



PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings T_a=25°C unless otherwise noted

Symbol	Parameter	Ratings	Units
V _{CBO}	Collector-Base Voltage	-30	V
V _{CEO}	Collector-Emitter Voltage	-25	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current	-1.0	А
P _C	Collector Power Dissipation	800	mW
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 ~ 150	°C

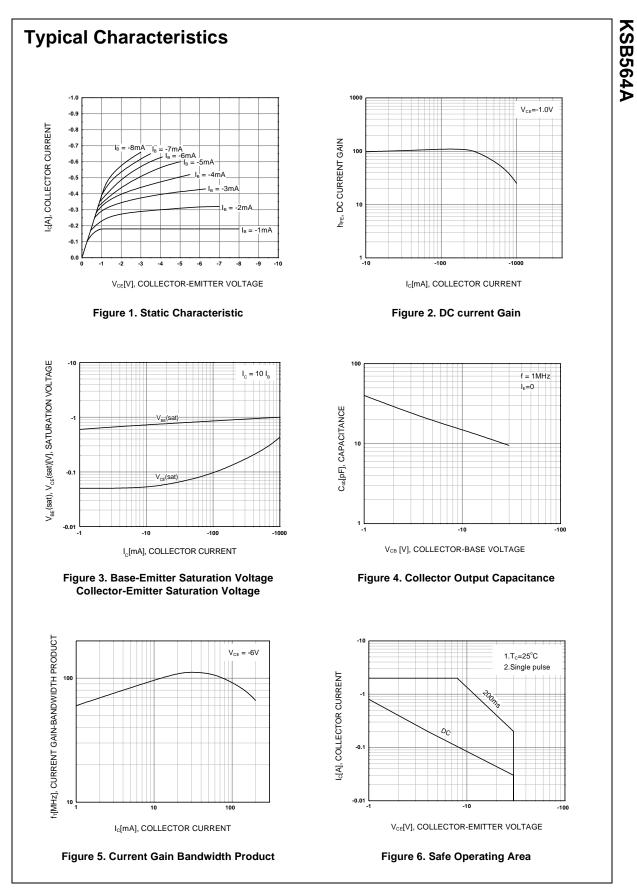
Electrical Characteristics T_a=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I _C = -100μA, I _E =0	-30			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = -10mA, I _B =0	-25			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E = -100μA, I _C =0	-5			V
I _{CBO}	Collector Cut-off Current	V _{CB} = -30V, I _E =0			-0.1	μΑ
h _{FE}	DC Current Gain	V _{CE} = -1V, I _C = -100mA	70		400	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -1A, I _B = -0.1A			-0.5	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = -1A, I _B = -0.1A			-1.2	V
f _T	Current Gain Bandwidth Product	V _{CE} = -6V, I _C = -10mA		110		MHz
C _{ob}	Output Capacitance	V _{CB} = -6V, I _E =0, f=1MHz		18		pF

h_{FE} Classification

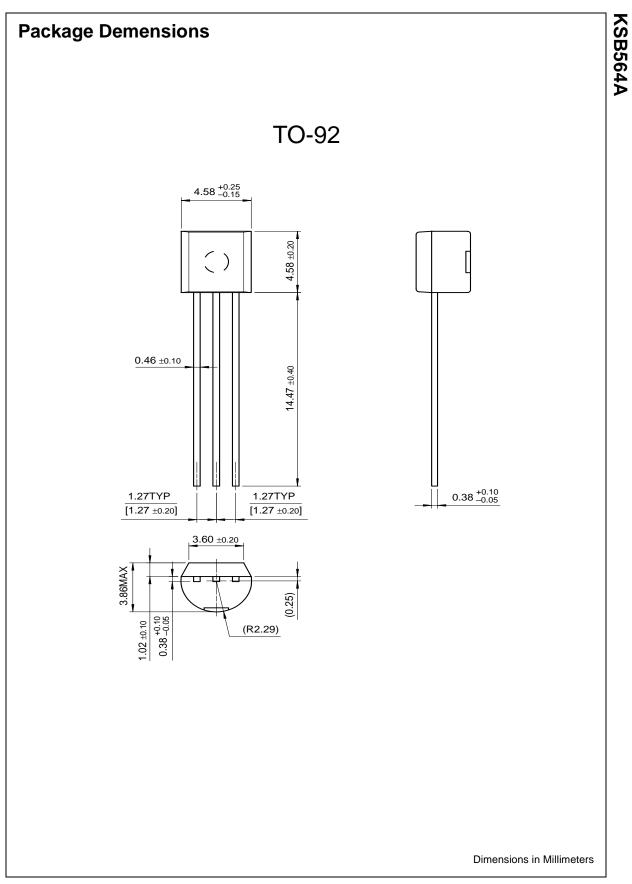
Classification	0	Y	G	
h _{FE}	70 ~ 140	120 ~ 240	200 ~ 400	

KSB564A



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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
Advance Information	Formative or In Design	This datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
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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.
Obsolete	Not In Production	This datasheet contains specifications on a product that has been discontinued by Fairchild semiconductor. The datasheet is printed for reference information only.