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 Http://www.100y.com.tw

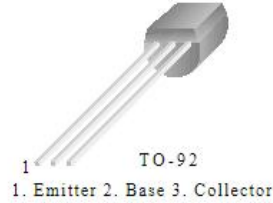
KSB564A

FAIRCHILD
 SEMICONDUCTOR*

KSB564A

Audio Frequency Power Amplifier

- Complement to KSD471A
- Collector Current : IC = -1A
- Collector Power Dissipation : PC = 800mW
- 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	Rating	Units
V _{CB0}	Collector-Base Voltage	-30	V
V _{CE0}	Collector-Emitter Voltage	-25	V
V _{EB0}	Emitter-Base Voltage	-5	V
IC	Collector Current	-1.0	A
PC	Collector Power Dissipation	800	mW
T _J	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.	Typ.	Max.	Units
B _V CB0	Collector-Base Breakdown Voltage	IC = -100μA, IE = 0	-3.0			V
B _V CE0	Collector-Emitter Breakdown Voltage	IC = -10mA, IB = 0	-2.5			V
B _V EB0	Emitter-Base Breakdown Voltage	IE = -100μA, IC = 0	-5			V
I _{CB0}	Collector Cut-off Current	V _{CB} = -30V, IE = 0			-0.1	μA
h _{FE}	DC Current Gain	V _{CE} = -1V, IC = -100mA	70		400	
V _{CE(sat)}	Collector-Emitter Saturation Voltage	IC = -1A, IB = -0.1A			-0.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	IC = -1A, IB = -0.1A			-1.2	V
f _T	Current Gain Bandwidth Product	V _{CE} = -6V, IC = -10mA		110		MHz
C _{ob}	Output Capacitance	V _{CB} = -6V, IE = 0, f = 1MHz		18		pF

hFE Classification

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

Typical Characteristics

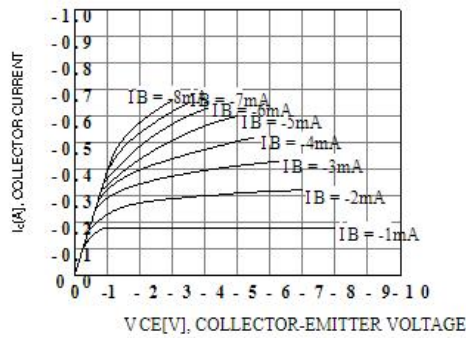


Figure 1. Static Characteristic

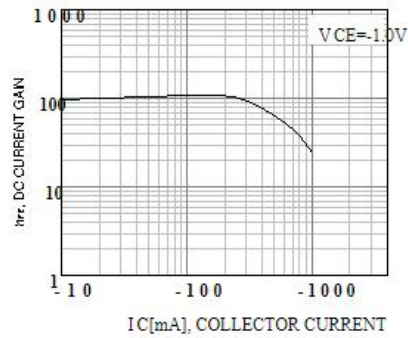


Figure 2. DC current Gain

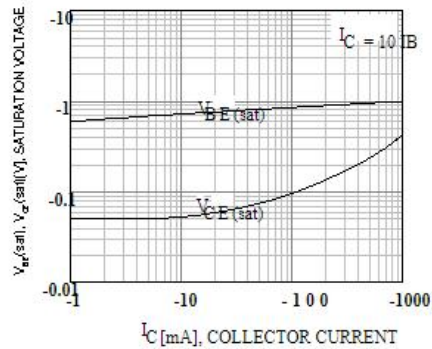


Figure 3. Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage

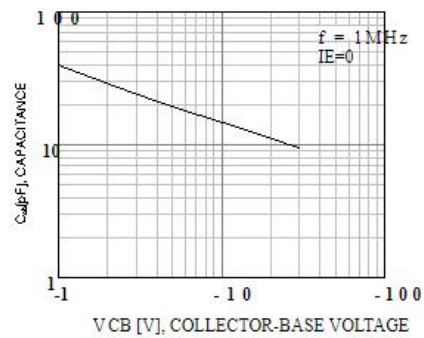


Figure 4. Collector Output Capacitance

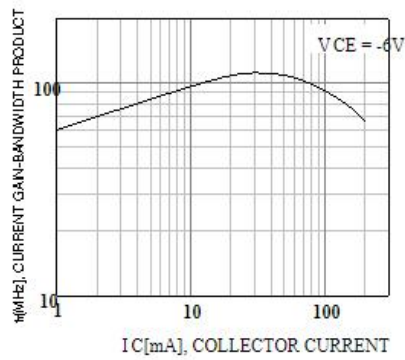


Figure 5. Current Gain Bandwidth Product

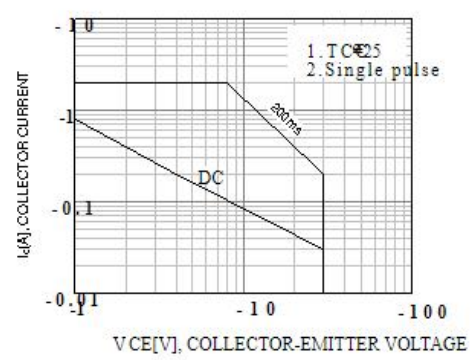
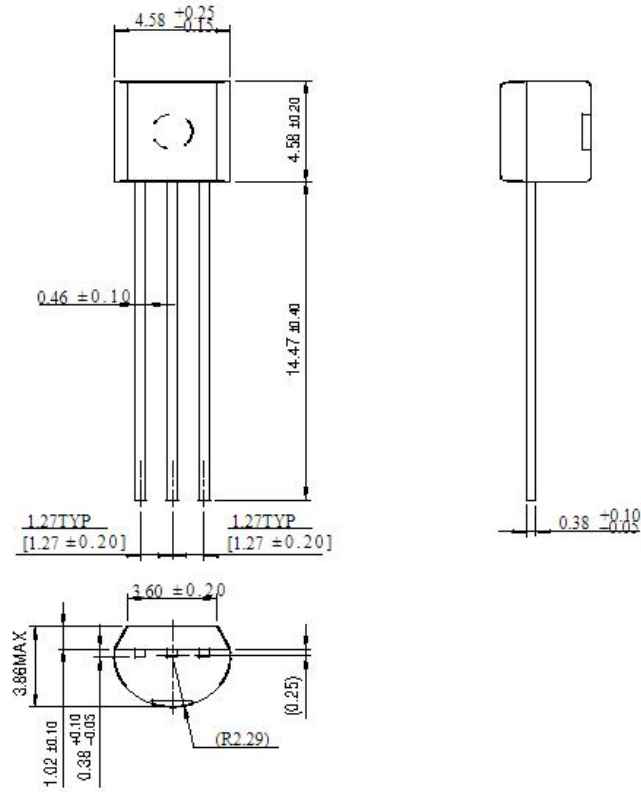


Figure 6. Safe Operating Area

Package Dimensions

TO-92



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