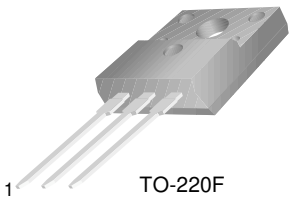
FAIRCHILD
SEMICONDUCTOR TM

KSA1304

Vertical Output Applications
Power Amplifier Applications

- Complement to KSC3296



TO-220F

1.Base 2.Collector 3.Emitter

PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings T_C=25°C unless otherwise noted

Symbol	Parameter	Ratings	Units
V_{CBO}	Collector-Base Voltage	- 150	V
V_{CEO}	Collector-Emitter Voltage	- 150	V
V_{EBO}	Emitter-Base Voltage	- 5	V
I_C	Collector Current	- 1.5	A
I_B	Base Current	- 0.5	A
P_C	Collector Dissipation (T_C=25°C)	20	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.	Typ.	Max.	Units
I_{CBO}	Collector Cut-off Current	V_{CB} = - 120V, I_E = 0			- 10	μA
I_{EBO}	Emitter Cut-off Current	V_{EB} = - 5V, I_C = 0			- 10	μA
h_{FE}	DC Current Gain	V_{CE} = - 10V, I_C = - 500mA	40	75	140	
V_{CE}(sat)	Collector-Emitter Saturation Voltage	I_C= - 500mA, I_B = - 50mA			- 1.5	V
V_{BE}(on)	Base-Emitter ON Voltage	V_{CE} = - 10V, I_C = - 500mA	- 0.65	- 0.75	- 0.85	V
f_T	Current Gain Bandwidth Product	V_{CE} = - 10V, I_C = - 500mA		4		MHz
C_{ob}	Output Capacitance	V_{CB} = - 10V, f = 1MHz		55		pF

Typical Characteristics

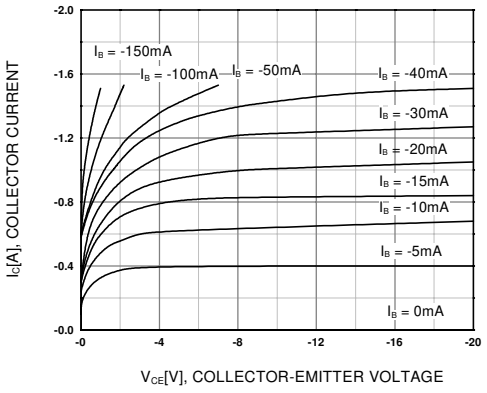


Figure 1. Static Characteristic

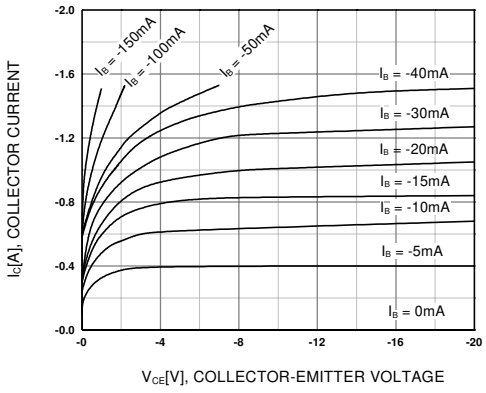


Figure 2. Static Characteristic

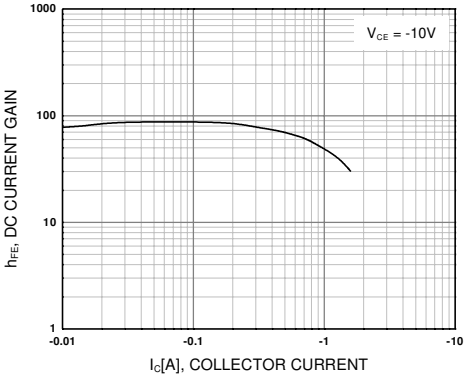


Figure 3. DC current Gain

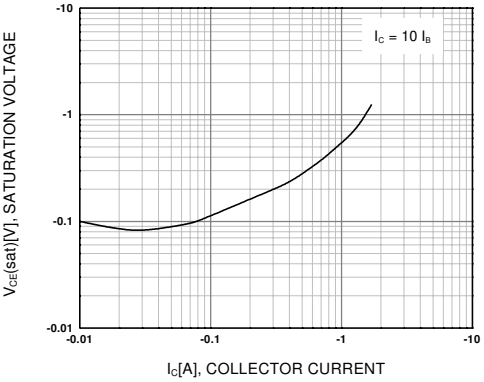


Figure 4. Collector-Emitter Saturation Voltage

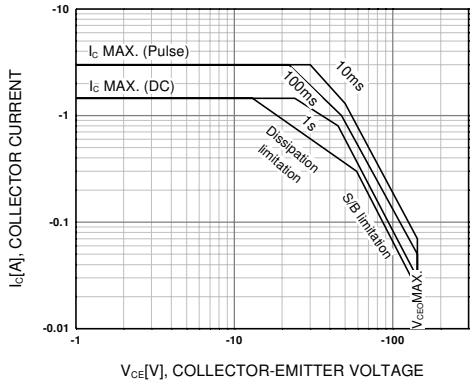


Figure 5. Safe Operating Area

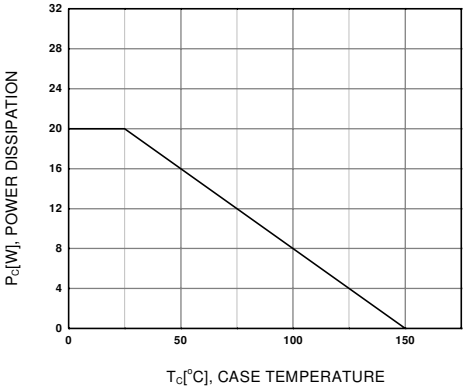
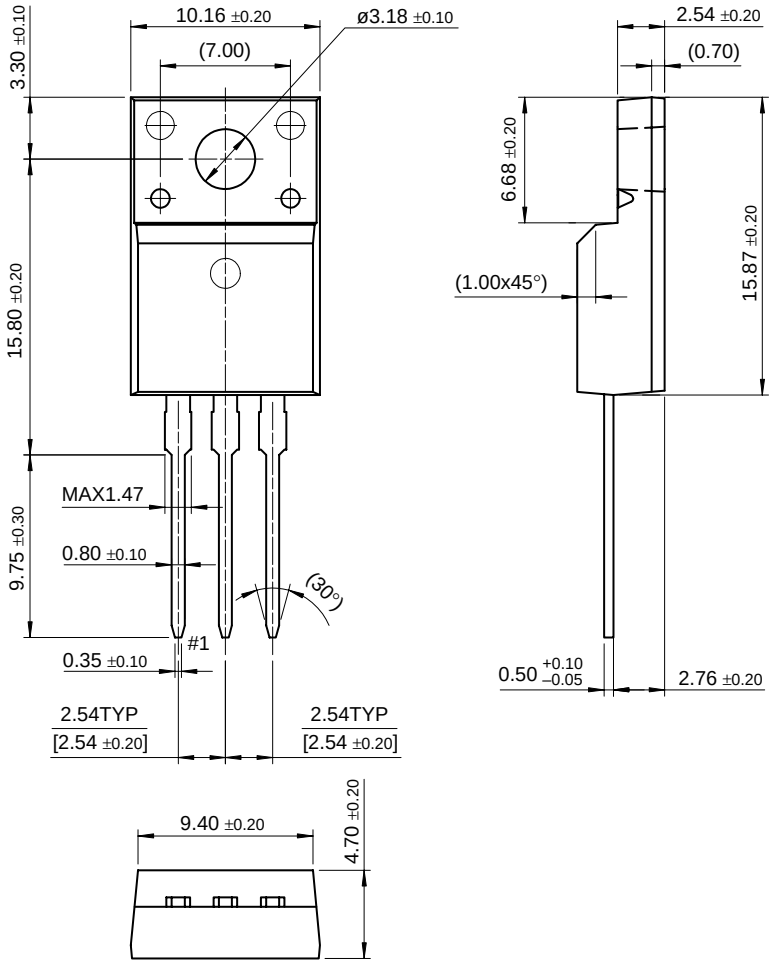


Figure 6. Power Derating

Package Demensions

TO-220F



Dimensions in Millimeters

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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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KSA1304
PNP Epitaxial Silicon Transistor

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Product status/pricing/packaging

Product	Product status	Pricing*	Package type	Leads	Packing method
KSA1304YTU	Full Production	$0.318	TO-220F	3	RAIL
KSA1304OTU	Full Production	$0.318	TO-220F	3	RAIL

* 1,000 piece Budgetary Pricing

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