FAIRCHILD SEMICONDUCTOR® FJA4310 Audio Power Amplifier • High Current Capability : I_C=10A • High Power Dissipation • Wide S.O.A

Complement to FJA4210



FJA4310

1.Base 2.Collector 3.Emitter

NPN Epitaxial Silicon Transistor

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

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	200	V
V _{CEO}	Collector-Emitter Voltage	140	V
V _{EBO}	Emitter-Base Voltage	6	V
lc	Collector Current (DC)	10	А
I _B	Base Current (DC)	1.5 C=25°C) 100	
P _C	Collector Dissipation (T _C =25°C)		
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 55 ~ 150	°C

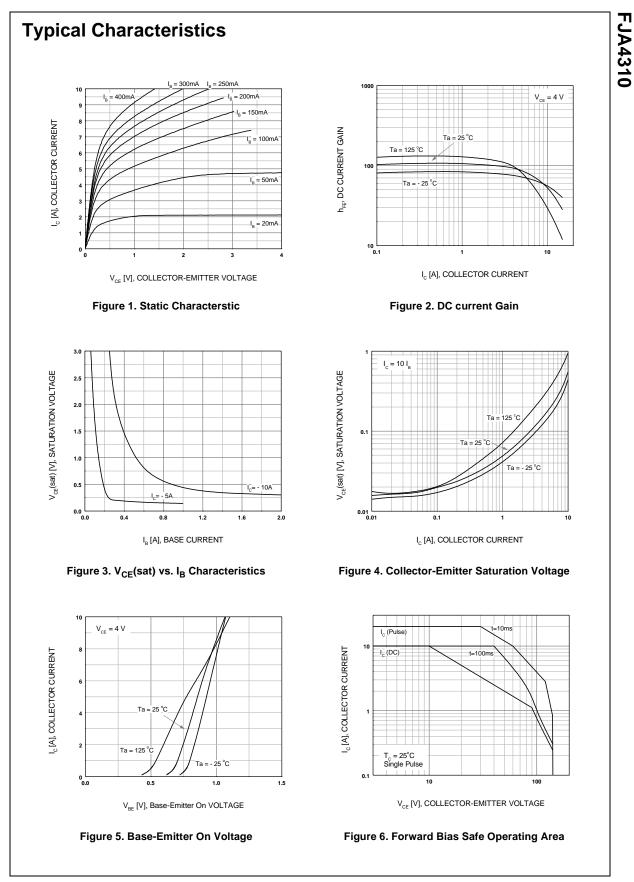
Electrical Characteristics ${\tt T_C=25^{\circ}C}$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I _C =5mA, I _E =0	200			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C =50mA, R _{BE} =∞	140			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E =5mA, I _C =0	6			V
I _{CBO}	Collector Cut-off Current	V _{CB} =200V, I _E =0			10	μΑ
I _{EBO}	Emitter Cut-off Current	V _{EB} =6V, I _C =0			10	μΑ
h _{FE}	* DC Current Gain	V _{CE} =4V, I _C =3A	50		180	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C =5A, I _B =0.5A			0.5	V
C _{ob}	Output Capacitance	V _{CB} =10V, f=1MHz		250		pF
f _T	Current Gain Bandwidth Product	V _{CE} =5V, I _C =1A		30		MHz

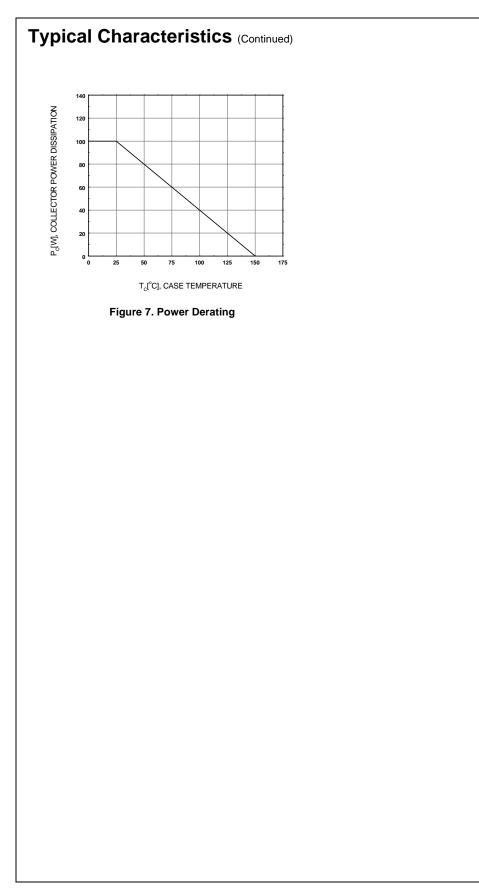
* Pulse Test : PW=20µs

h_{FE} Classification

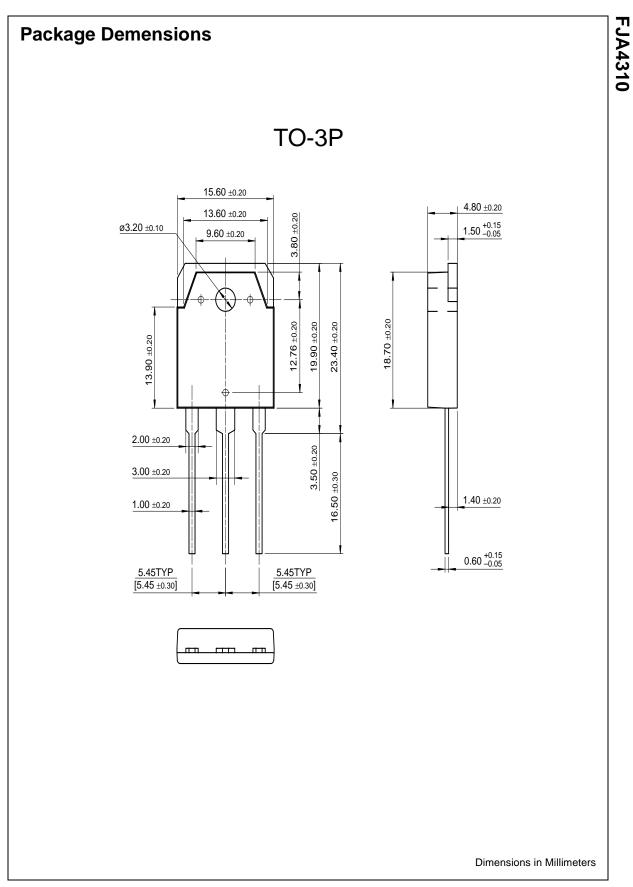
Classification	R	0	Y	
h _{FE}	50 ~ 100	70 ~ 140	90 ~ 180	



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FJA4310



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EnSigna™	LittleFET™	QS™	TinyLogic™	
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