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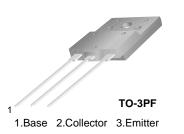
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FJAF4310 NPN Epitaxial Silicon Transistor

Features

- Audio Power Amplifier
- High Current Capability : I_C=10A
- High Power Dissipation
- Wide S.O.A
- Complement to FJAF4210



Absolute Maximum Ratings* $T_A=25$ °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	
Ι _C	Collector Current (DC)	10	А	
Ι _Β	Base Current (DC)	1.5	A	
P _C	Collector Dissipation (T _C =25°C)	80	W	
$R_{ ext{ heta}JC}$	Junction to Case	1.48	°C/W	
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 =5mA, I _E =0	200			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	$I_C=50$ mA, $R_{BE}=\infty$	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

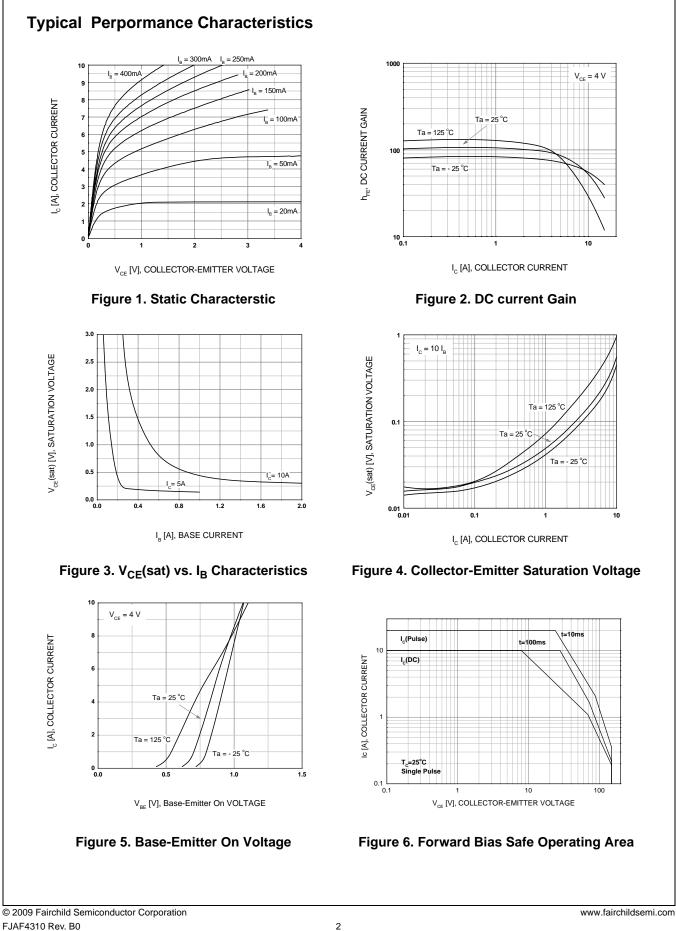
* Pulse Test : PW=20µs

h_{FE} Classification

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

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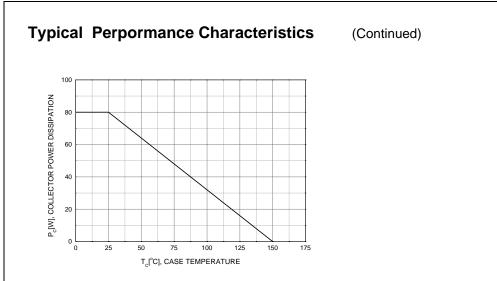
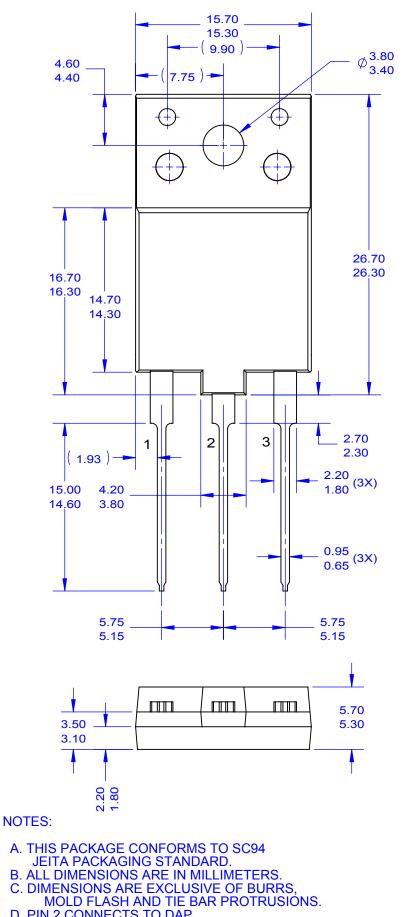
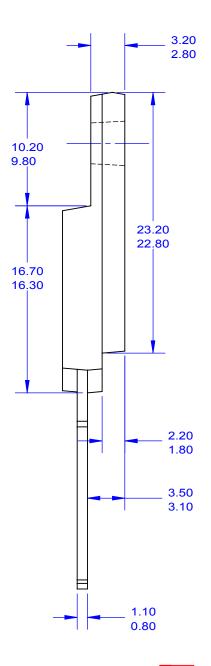


Figure 7. Power Derating









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