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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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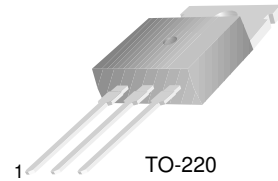
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



FJP3835

Power Amplifier

- High Current Capability : $I_C=8A$
- High Power Dissipation
- Wide S.O.A



TO-220
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	120	V
V_{EBO}	Emitter-Base Voltage	8	V
I_C	Collector Current (DC)	8	A
I_{CP}	Collector Current (Pulse)	16	A
P_C	Collector Dissipation ($T_C=25^\circ C$)	50	W
T_J	Junction Temperature	150	$^\circ C$
T_{STG}	Storage Temperature	- 55 ~ 150	$^\circ C$

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

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Units
BV_{CBO}	Collector-Base Breakdown Voltage	$I_C=5mA, I_E=0$	200			V
BV_{CEO}	Collector-Emitter Breakdown Voltage	$I_C=10mA, R_{BE}=\infty$	120			V
BV_{EBO}	Emitter-Base Breakdown Voltage	$I_E=5mA, I_C=0$	8			V
I_{CBO}	Collector Cut-off Current	$V_{CB}=80V, I_E=0$			0.1	mA
I_{EBO}	Emitter Cut-off Current	$V_{EB}=4V, I_C=0$			0.1	mA
h_{FE}	* DC Current Gain	$V_{CE}=4V, I_C=3A$	120		250	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C=3A, I_B=0.3A$			0.5	V
$V_{BE(sat)}$	Base-Emitter On Voltage	$I_C=3A, I_B=0.3A$			1.2	V
f_T	Current Gain Bandwidth Product	$V_{CE}=5V, I_C=1A$		30		MHz
C_{ob}	Output Capacitance	$V_{CB}=10V, f=1MHz$		210		pF
t_{ON}	Turn On Time	$V_{CC}=20V,$ $I_C=1A=10I_{B1}=-10I_{B2}$ $R_L=20\Omega$		0.26		μs
t_F	Fall Time			0.68		μs
t_{STG}	Storage Time			6.68		μs

* Pulse Test : $PW=20\mu s$

Typical Characteristics

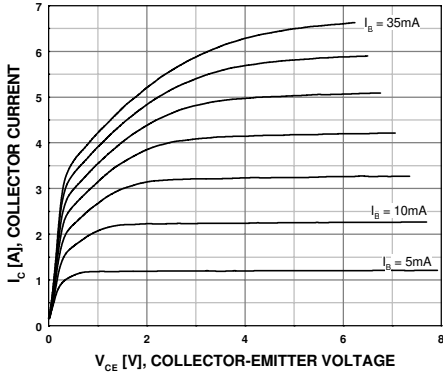


Figure 1. Static Characteristic

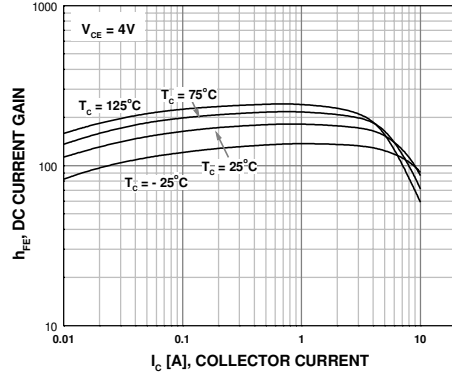


Figure 2. DC current Gain

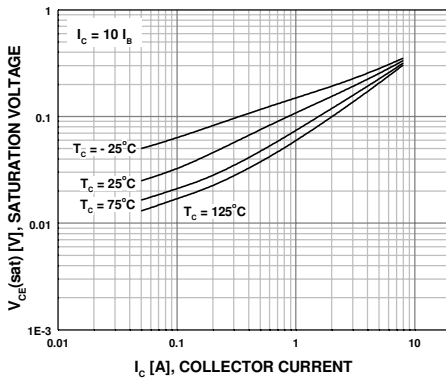


Figure 3. Collector-Emitter Saturation Voltage

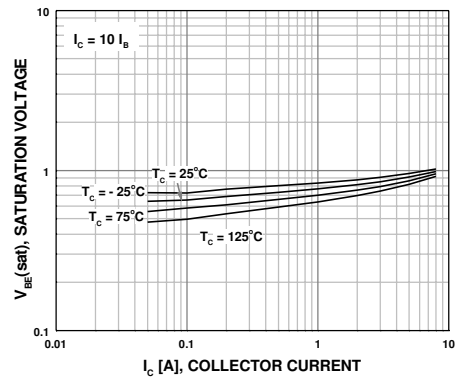


Figure 4. Base-Emitter Saturation Voltage

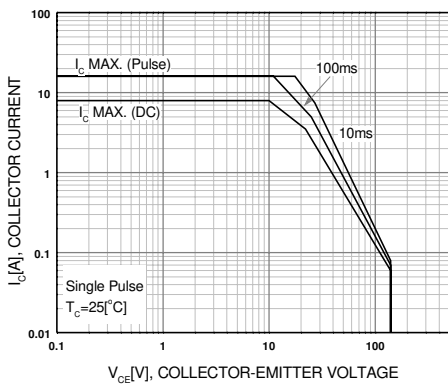


Figure 5. Safe Operating Area

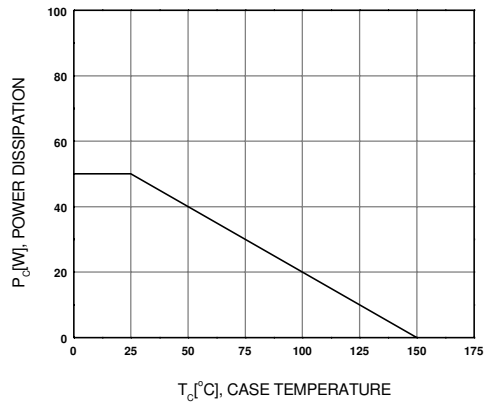
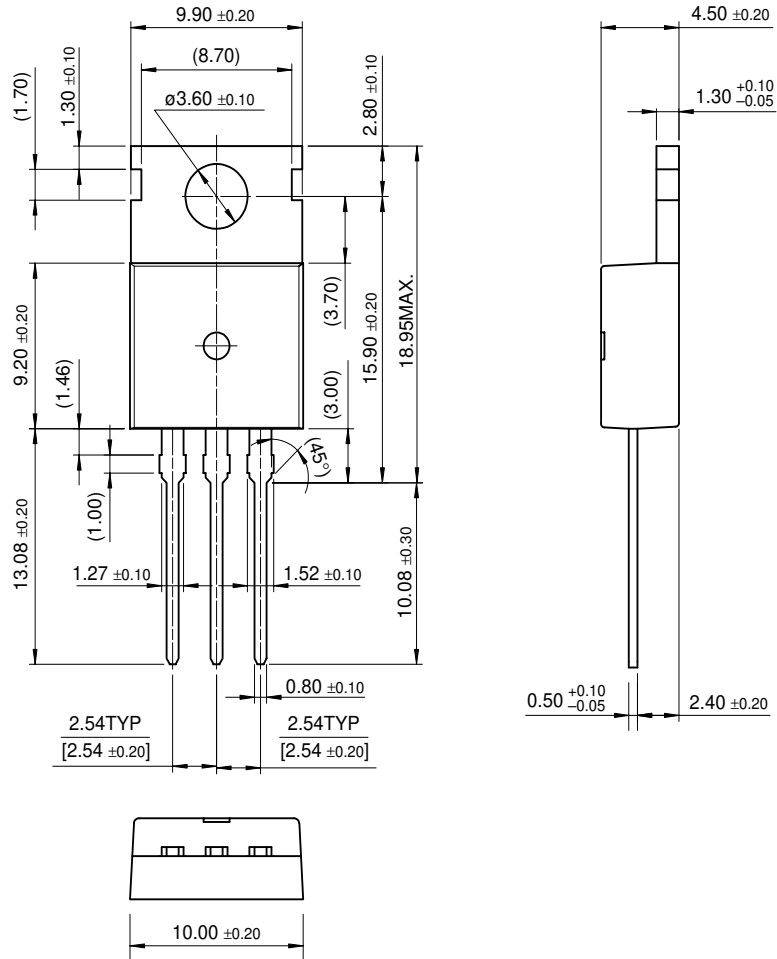


Figure 6. Power Derating

Package Dimensions

TO-220



Dimensions in Millimeters

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EnSigna™	ImpliedDisconnect™	OCXPro™	SILENT SWITCHER®	UltraFET®
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Programmable Active Droop™	POP™	SuperFET™		

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