

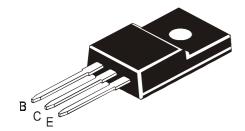
TÜV MANAGEMENT SERVICE

An ISO/TS16949 and ISO 9001 Certified Company

SILICON PLANAR POWER TRANSISTORS

CJF2955 PNP CJF3055 NPN





General Purpose Amplifier and Switching Applications.

ABSOLUTE MAXIMUM RATINGS

DESCRIPTION	SYMBOL	VALUE	UNIT
Collector Emitter (Sustaining) Voltage	V _{CEO (sus)}	90	V
Collector Emitter Voltage	V _{CES}	90	V
Emitter Base Voltage	V _{EBO}	5	V
RMS Isolation Voltage (for 1sec,R.H.	(1) V _{ISOL} (a)	3500	V_{RMS}
<30%, T _A =25°C)	(b)	1500	V_{RMS}
Collector Current	I _C	10	A
Base Current	I _B	6	Α
Total Power Dissipation @ Tc=25°C	P _{D**}	30	W
Derate Above 25°C		0.25	W/°C
Total Power Dissipation @ Ta=25°C	P_D	2	W
Derate Above 25°C		0.016	W/°C
Operating and Storage Junction	$T_{i}T_{stq}$	- 55 to +150	°C
Temperature Range	<i>"</i>		
THERMAL RESISTANCE			
From Junction to Ambient	$R_{th (j-a)}$	62.5	°C/W
From Junction to Case	R _{th (j-c)**}	4	°C/W
Lead Temperature for Soldering Purpose	T _L	260	°C

^{**}Measurement made with thermocouple contacting the bottom insulated mounting surface (in a location beneath the die), the device mounted on a heatsink with thermal grease and a mounting torque of >6 in.lbs.

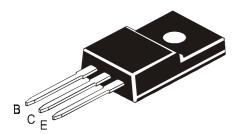
(1) RMS Isolation Voltage : (a) 3500 V_{RMS} with Package in Clip Mounting Position (b) 1500 V_{RMS} with Package in Screw Mounting Position (for 1sec, R.H.<30%, Ta=25°C; Pulse Test: Pulse Width \leq 300 μ s, Duty Cycle \leq 2%)

ELECTRICAL CHARACTERISTICS (Tc=25°C unless specified otherwise)

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	MAX	UNIT
Collector Emitter sustaining Voltage	V _{CEO (sus)} *	I _C =200mA, I _B =0	90		V
Collector Cut off Current	I _{CBO}	$V_{CB}=90V$, $I_{E}=0$		1	μΑ
	I _{CES}	V_{CE} =90V, V_{BE} =0		1	μA
Emitter Cut off Current	I_{EBO}	V_{EB} =5 V , I_{C} =0		1	μΑ

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TO-220FP Fully Isolated Plastic Package

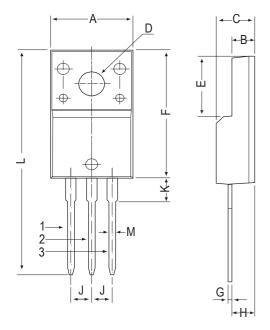
ELECTRICAL CHARACTERISTICS (Tc=25°C unless specified otherwise)

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	MAX	UNIT
DC Current Gain	h _{FE} *	I _C =4.0A, V _{CE} =4V	20	100	
	12	I _C =10A, V _{CE} =4V	5		
Collector Emitter Saturation Voltage	$V_{CE(Sat)}$ *	I_C =4A, I_B =0.4A		1	V
_	. ,	I_{C} =10A, I_{B} =3.3A		2.5	V
Base Emitter on Voltage	$V_{BE(on)}^*$	I_C =4.0A, V_{CE} =4V		1.5	V
DYNAMIC CHARACTERISTICS					
Current Gain - Bandwidth Product	f_T	I_C =500mA, V_{CE} =10V	2		MHz
		f=500kHz			

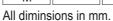
^{*} Pulse Test: Pulse Width =5ms, Duty Cycle <10 %

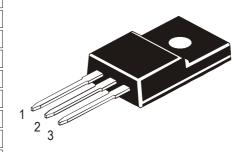
TO-220FP Fully Isolated Plastic Package

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DIM	MIN	MAX			
Α	9.96	10.36			
В	2.60	3.00			
С	4.50	4.90			
D	3.10	3.30			
Е	7.90	8.20			
F	16.87	17.27			
G	0.45	0.50			
Н	2.56	2.96			
J	2.34	2.74			
K	_	3.08			
L	<u> </u>				
М	_	0.80			
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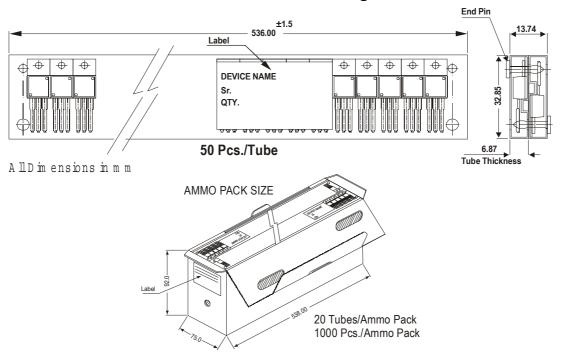




Pin Configuration

- 1. Base
- 2. Collector
- 3. Emitter

TO-220 FP Tube Packing



Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
T0-220FP	200 pcs/polybag	396 gm/200 pcs	3" x 7.5" x 7.5"	1K	17" x 15" x 13.5"	16K	36 kgs
	50 pcs/tube	135 gm/50 pcs	3.5" x 3.7" x 21.5"	1K	19" x 19" x 19"	10K	28 kgs

Notes CJF2955 PNP CJF3055 NPN

TO-220FP Fully Isolated Plastic Package

Disclaimer

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