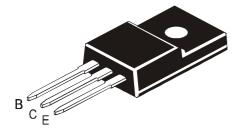


SILICON PLANAR POWER TRANSISTORS



CJF15032 NPN CJF15033 PNP

TO-220FP Fully Isolated Plastic Package

Designed For Use As High - Frequency Drivers in Audio Amplifiers.

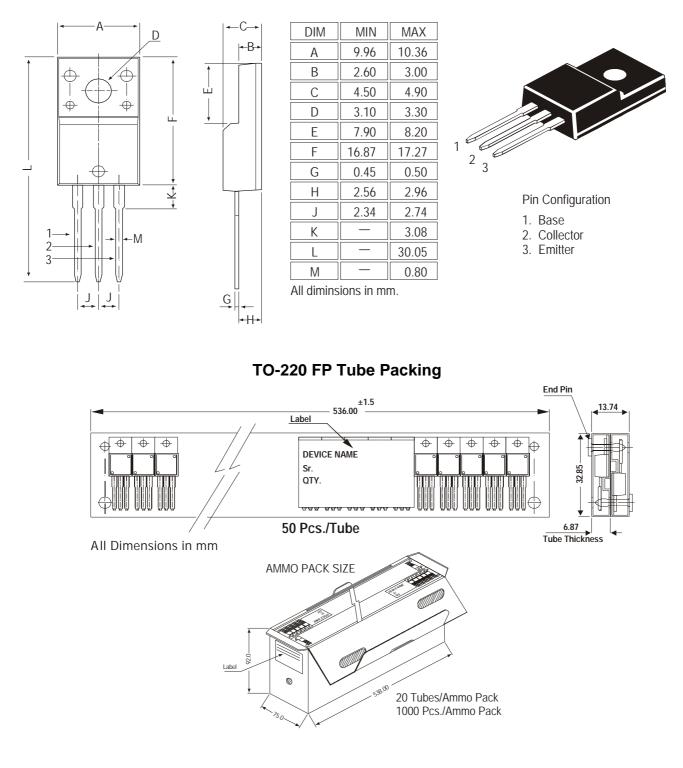
ABSOLUTE MAXIMUM RATINGS.			
DESCRIPTION	SYMBOL	VALUE	UNIT
Collector Base Voltage	V _{CBO}	250	V
Collector Emitter Voltage	V _{CEO}	250	V
Emitter Base Voltage	V _{EBO}	5	V
RMS Isolation Voltage (for 1sec, R.H.	(1) V _{ISOL} (a)	3500	V
<30%, T _A =25ºC)	(b)	1500	V
Collector Current - Continuous	I _C	8	А
- Peak		16	А
Base Current	I _B	2	А
Total Power Dissipation @ Tc=25°C	PD	50	W
Derate Above 25°C		0.4	W/ºC
Total Power Dissipation @ Ta=25°C	PD	2	W
Derate Above 25°C		0.016	W/ºC
Operating and Storage Junction	T_{j},T_{stg}	-65 to +150	°C
Temperature Range			
THERMAL RESISTANCE			
From Junction to Ambient	R _{th (j-a)}	62.5	°C/W
From Junction to Case	R _{th (j-c)}	2.5	°C/W

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

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	MAX	UNIT
Collector Emitter (sus) Voltage	V _{CEO (sus)} *	I _C =10mA, I _B =0	250	-	V
Collector Cut off Current	I _{CBO}	V_{CB} =150V, I _E =0	-	10	μA
Emitter Cut off Current	I _{EBO}	$V_{EB}=5V,I_{C}=0$	-	10	μA
DC Current Gain	h _{FE} *	I _C =0.5A, V _{CE} =5V	50	-	·
		I _C =1.0A, V _{CE} =5V	50	-	
		I _C =2.0A, V _{CE} =5V	10	-	
Collector Emitter Saturation Voltage	V _{CE(Sat)} *	I _C =1A, I _B =0.1A	-	0.5	V
Base Emitter on Voltage	V _{BE(on)} *	$I_C=1.0A$, $V_{CE}=5V$	-	1.0	V
DYNAMIC CHARACTERISTICS					
Current Gain - Bandwidth Product **	f _T	I _C =500mA, V _{CE} =10V	30	-	MHz
		f _{test} =1MHz			

(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 <300ms, Duty Cycle<2%

* Pulse Test: Pulse Width < 300ms, Duty Cycle <2 %



TO-220FP Fully Isolated Plastic Package

Packing Detail

PACKAGE	STANDARDPACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
TO-220FP		396 gm/200 pcs			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

Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Discrete Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished in the Data Sheet and on the CDIL Web Site/CD is believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Discrete Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

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CDIL is a registered Trademark of Continental Device India Limited C-120 Naraina Industrial Area, New Delhi 110 028, India. Telephone + 91-11-2579 6150, 5141 1112 Fax + 91-11-2579 5290, 5141 1119 email@cdil.com www.cdilsemi.com

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