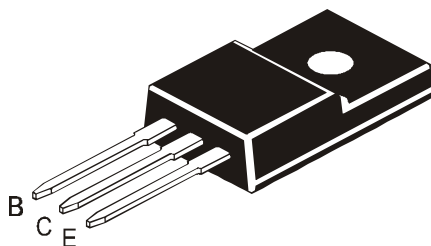


NPN SILICON PLANAR POWER TRANSISTOR

CFD2375

TO-220FP Fully Isolated
Plastic Package



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ABSOLUTE MAXIMUM RATINGS

DESCRIPTION	SYMBOL	VALUE	UNIT
Collector Base Voltage	V_{CBO}	80	V
Collector Emitter Voltage	V_{CEO}	60	V
Emitter Base Voltage	V_{EBO}	6	V
RMS Isolation Voltage (for 1sec, R.H. <30%, $T_a = 25^\circ\text{C}$)	** V_{ISOL} (a) (b)	3500 1500	V_{RMS} V_{RMS}
Collector Current Peak	I_{CP}	6	A
Collector Current	I_C	3	A
Base Current	I_B	1	A
Collector Power Dissipation @ $T_c = 25^\circ\text{C}$ @ $T_a = 25^\circ\text{C}$	P_C	25 2	W W
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to +150	$^\circ\text{C}$

** 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%, $T_a = 25^\circ\text{C}$; Pulse Test: Pulse Width $\leq 300\text{ms}$, Duty Cycle $\leq 2\%$)

ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$ unless otherwise specified)

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Collector Cut off Current	I_{CBO}	$V_{CB} = 80\text{V}$, $I_E = 0$			100	μA
Collector Cut off Current	I_{CEO}	$V_{CE} = 40\text{V}$, $I_B = 0$			100	μA
Emitter Cut off Current	I_{EBO}	$V_{EB} = 6\text{V}$, $I_C = 0$			100	μA
Collector Emitter Voltage	V_{CEO}	$I_C = 25\text{mA}$, $I_B = 0$	60			V
DC Current Gain	h_{FE}	$V_{CE} = 4\text{V}$, $I_C = 0.5\text{A}$	500		1500	
Collector Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 2\text{A}$, $I_B = 0.05\text{A}$			1	V
Transition Frequency	f_T	$V_{CE} = 12\text{V}$, $I_C = 0.2\text{A}$ $f = 10\text{MHz}$		50		MHz

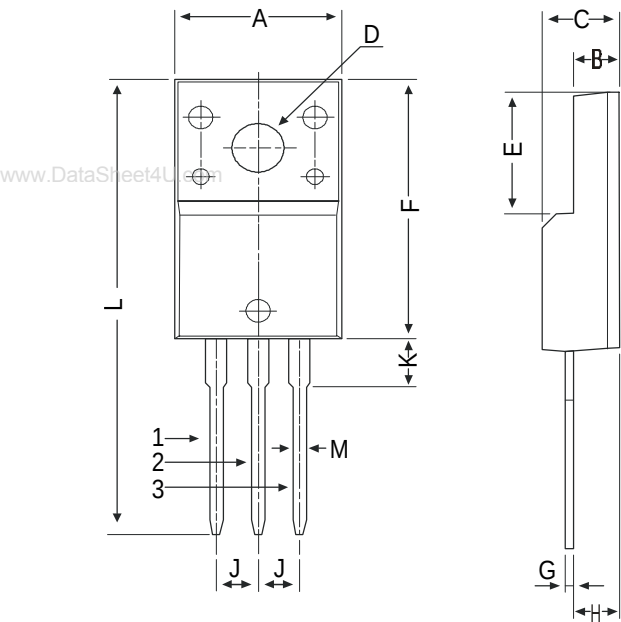
h_{FE} Classification

Q : 500 - 1000

P : 800 - 1500

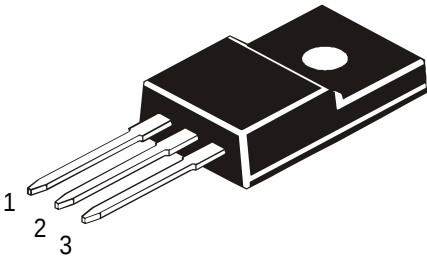
TO-220FP Fully Isolated
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DIM	MIN	MAX
A	9.96	10.36
B	2.60	3.00
C	4.50	4.90
D	3.10	3.30
E	7.90	8.20
F	16.87	17.27
G	0.45	0.50
H	2.56	2.96
J	2.34	2.74
K	—	3.08
L	—	30.05
M	—	0.80

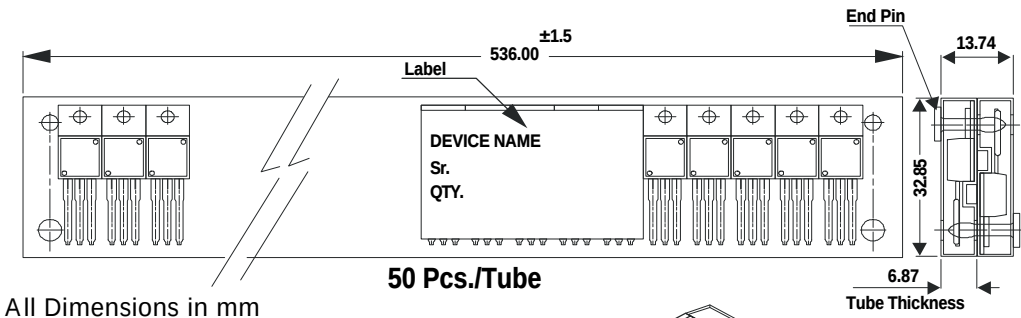
All diminsions in mm.



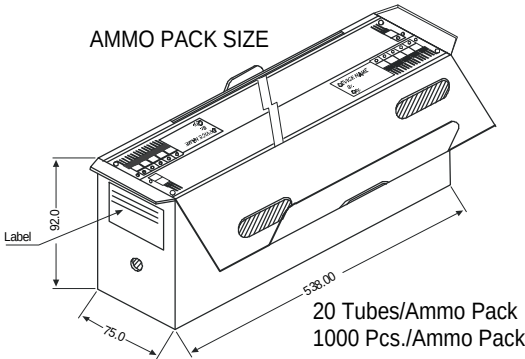
Pin Configuration

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

TO-220 FP Tube Packing



AMMO PACK SIZE



Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
TO-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

**TO-220FP Fully Isolated
Plastic Package**www.DataSheet4U.com**Disclaimer**

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