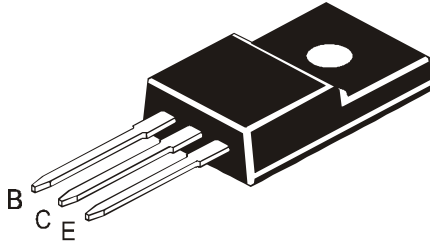


NPN SILICON PLANAR DALINGTON POWER TRANSISTORS

CFD1275, CFD1275A



TO-220FP Fully Isolated Plastic Package

Complementary CFB949, CFB949A

ABSOLUTE MAXIMUM RATINGS (T_a=25°C)

DESCRIPTION	SYMBOL	CFD1275	CFD1275A	UNIT
Collector Base Voltage	V _{CB0}	60	80	V
Collector Emitter Voltage	V _{CEO}	60	80	V
Emitter Base Voltage	V _{EBO}	5		V
RMS Isolation Voltage (for 1sec, R.H. <30%, T _a = 25°C)	** V _{ISOL} (a)	3500		V _{RMS}
	(b)	1500		V _{RMS}
Collector Current Peak	I _{CP}	4		A
Collector Current	I _C	2		A
Collector Power Dissipation @T _c =25°C @T _a =25°C	P _C	35		W
		2		W
Junction Temperature	T _j	150		°C
Storage Temperature Range	T _{stg}	- 55 to +150		°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°C; Pulse Test: Pulse Width ≤300ms, Duty Cycle≤2%)**

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

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Collector Cut Off Current	I _{CBO}	V _{CB} = 60V, I _E = 0, CFD1275			1.0	mA
		V _{CB} = 80V, I _E = 0, CFD1275A			1.0	mA
Collector Cut Off Current	I _{CEO}	V _{CE} = 30V, I _B = 0, CFD1275			2.0	mA
		V _{CE} = 40V, I _B = 0, CFD1275A			2.0	mA
Emitter Cut Off Current	I _{EBO}	V _{EB} = 5V, I _C = 0			2.0	mA
Collector Emitter Voltage	V _{CEO}	I _C = 30mA, I _B = 0 CFD1275 CFD1275A	60			V
			80			V
DC Current Gain	h _{FE} *h _{FE}	V _{CE} = 4V, I _C = 1A V _{CE} = 4V, I _C = 2A	1000 1000		10000	
Collector Emitter Saturation Voltage	V _{CE(sat)}	I _C = 2A, I _B = 8mA			2.5	V
Base Emitter On Voltage	V _{BE}	V _{CE} = 4V, I _C = 2A			2.8	V
Turn On Time	t _{on}	I _C = 2A, I _{B1} = - I _{B2} = 8mA		0.5		μs
Storage Time	t _{stg}			4.0		μs
Fall Time	t _r			1.0		μs

*h_{FE} Classification

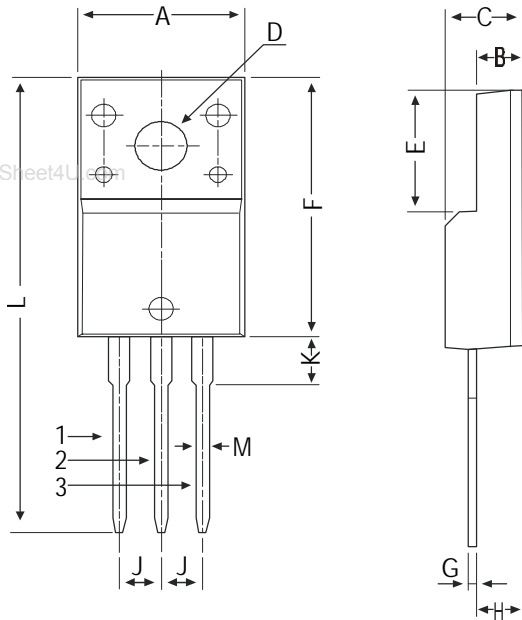
R : 1000 - 2500

Q : 2000 - 5000

P : 4000 - 10000

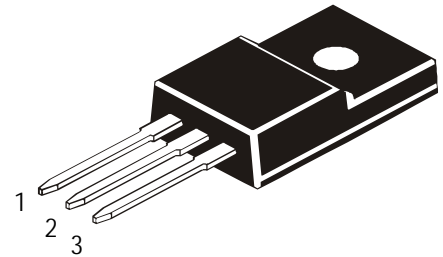
TO-220FP Fully Isolated Plastic Package

TO-220FP Fully Isolated Plastic Package



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

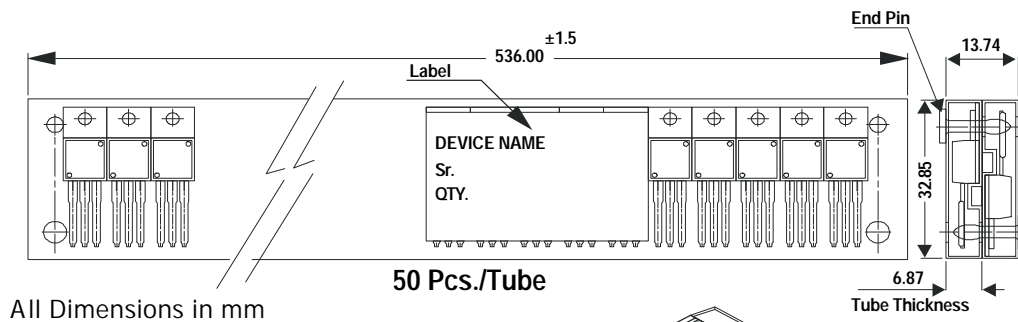
All dimensions in mm.



Pin Configuration

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

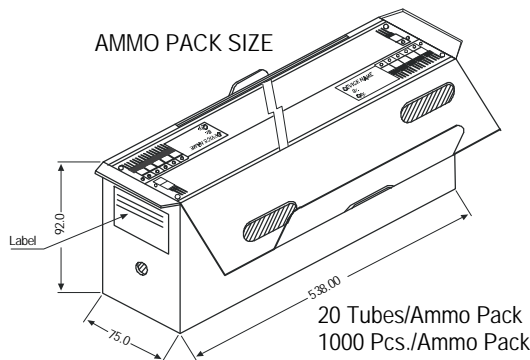
TO-220 FP Tube Packing



All Dimensions in mm

50 Pcs./Tube

AMMO PACK SIZE



20 Tubes/Ammo Pack
1000 Pcs./Ammo Pack

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**

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Disclaimer

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