

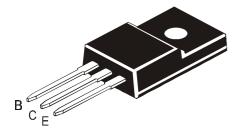
TÜV MARAGEMENT SERVICE 2010



An ISO/TS 16949, ISO 9001 and ISO 14001 Certified Company

### **NPN SILICON PLANAR POWER TRANSISTORS**

CFD1264, CFD1264A



TO-220FP Fully Isolated Plastic Package

## Complementary CFB940, CFB940A

#### ABSOLUTE MAXIMUM RATINGS(T<sub>a</sub>=25°C)

DESCRIPTION	SYMBOL	CFD1264	CFD1264A	UNIT
Collector Base Voltage	$V_{CBO}$	200	200	V
Collector Emitter Voltage	V <sub>CEO</sub>	150	180	V
Emitter Base Voltage	$V_{EBO}$		V	
RMS Isolation Voltage (for 1sec, R.H.	** V <sub>ISOL</sub> (a)	35	$V_{RMS}$	
<30%, T <sub>a</sub> = 25°C)	(b)	15	$V_{RMS}$	
Collector Current Peak	I <sub>CP</sub>		3	А
Collector Current	I <sub>C</sub>		2	А
Collector Power Dissipation @T <sub>c</sub> =25°C	P <sub>C</sub>	30		W
@T <sub>a</sub> =25°C		2		W
Junction Temperature	Tj	1	50	°C
Storage Temperature Range	T <sub>stg</sub>	- 55 to	o +150	°C

<sup>\*\*</sup> 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  $\leq$ 300ms, Duty Cycle $\leq$ 2%)

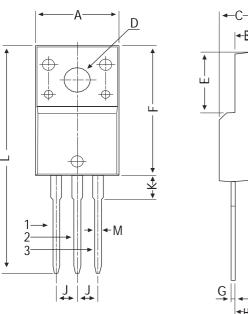
## ELECTRICAL CHARACTERISTICS (T<sub>C</sub>=25°C unless otherwise specified)

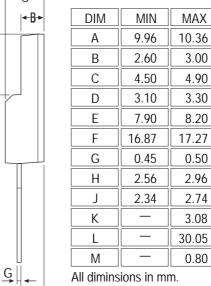
DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Collector Cut Off Current	Сво	$V_{CB} = 200 \text{V}, I_{E} = 0$			50	μΑ
Emitter Cut Off Current	EBO	$V_{EB} = 4V, I_{C} = 0$			50	μΑ
Collector Base Voltage	$V_{CBO}$	I <sub>C</sub> =500μA, I <sub>E</sub> =0	200			V
Collector Emitter Voltage	$V_{CEO}$	$I_C=5mA$ , $I_B=0$				
		CFD1264	150			V
		CFD1264A	180			V
Emitter Base Voltage	$V_{EBO}$	$I_{E}=500\mu A, I_{C}=0$	6			V
DC Current Gain	h <sub>FE</sub> *	$V_{CE} = 10V, I_{C} = 150mA$	60		240	
	h <sub>FE</sub>	$V_{CE} = 10V, I_{C} = 400 \text{mA}$	50			
Base Emitter On Voltage	$V_{BE}$	$V_{CE} = 10V, I_{C} = 400 \text{mA}$			1	V
Collector Emitter Saturation Voltage	V <sub>CE(sat)</sub>	$I_C = 500 \text{mA}, I_B = 50 \text{mA}$		·	1	V

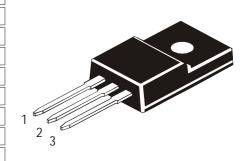
 $h_{FE}^*$  Classification Q: 60 - 140 P: 100 - 240

# TO-220FP Fully Isolated Plastic Package

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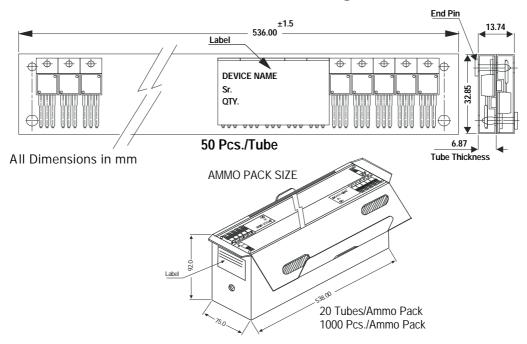




Pin Configuration

- 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
TO-220FP	200 pcs/polybag 50 pcs/tube	396 gm/200 pcs 135 gm/50 pcs	3" x 7.5" x 7.5" 3.5" x 3.7" x 21.5"	1K 1K	17" x 15" x 13.5" 19" x 19" x 19"	16K 10K	36 kgs 28 kgs

TO-220FP Fully Isolated Plastic Package

### **Disclaimer**

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