

Continental Device India Limited An ISO/TS 16949, ISO 9001 and ISO 14001 Certified Company

NPN EPITAXIAL PLANAR SILICON DARLINGTON TRANSISTOR



CFD1933

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TO-220FP Fully Isolated Plastic Package

Low Freq. Power Amp. **Built in Damper Diode** Complementry CSB1342

ABSOLUTE MAXIMUM RATINGS(Ta=25deg C)

DESCRIPTION	SYMBOL		VALUE			UNIT
Collector -Base Voltage	VCBO		80			V
Collector -Emitter Voltage	VCEO		80			V
Emitter Base Voltage	VEBO		7.0			V
Collector Current DC	IC		4.0			А
Collector Current (Pulse*)			6.0			А
Collector Power Dissipation @ Ta=25 deg C	PC		2.0			W
Collector Power Dissipation @ Tc=25 deg C			30			W
Junction Temperature	Tj		150			deg C
Storage Temperature Range	Tstg	Tstg -55 to +150				deg C
*Single Pulse Pw=100ms						
ELECTRICAL CHARACTERISTICS (Ta=25 deg	g C Unless S	pecified)				
DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Collector Emitter Voltage	VCEO	IC=1mA, IB=0	80	-	-	V
Collector Base Voltage	VCBO	IC=50uA, IE=0	80	-	-	V
Collector Cut off Current	ICBO	VCB=80V, IE=0	-	-	100	uA
Emitter Cut off Current	IEBO	VEB=5V,IC=0	-	-	3.0	mA
Collector Emitter Saturation Voltage	VCE(Sat)**	IC=2A,IB=4mA	-	-	1.5	V
DC Current Gain	hFE**	IC=2A, VCE=3V	1.0	-	10	K
Dynamic Characteristics						
Transition Frequency	ft	VCE=5V,IC=0.2A, f=10MHz	-	40	-	MHz
Collector Output Capacitance	Cob	VCB=10V, IE=0 f=1MHz	-	35	-	pF
**Pulse test						

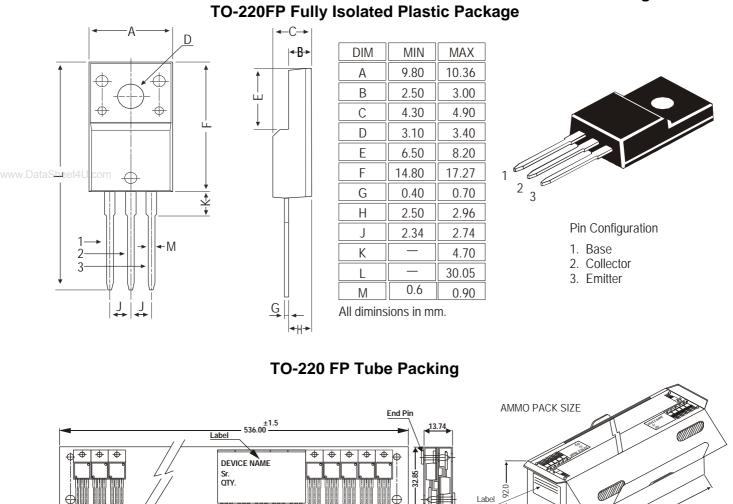
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20 Tubes/Ammo Pack 1000 pcs./Ammo Pack

TO-220FP Fully Isolated Plastic Package



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Tube Thickness

Packing Detail

All Dimensions in mm

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50 Pcs./Tube

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

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Component Disposal Instructions

.DataSheet4U.com

- 1. CDIL Semiconductor Devices are RoHS compliant, customers are requested to please dispose as per prevailing Environmental Legislation of their Country.
- 2. In Europe, please dispose as per EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

Disclaimer

The product information and the selection guides facilitate selection of the CDIL's 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 are 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 Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems 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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