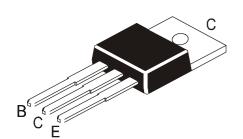


Continental Device India Limited

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



PLASTIC POWER TRANSISTORS



TIP130 TIP135 TIP131 TIP136 TIP132 TIP137 NPN PNP

TO-220 Plastic Package

Intended for use in Linear and Switching Applications

ABSOLUTE MAXIMUM RATINGS (T_a=25°C)

ADSOLUTE INIAATINIONI KATINGS	(1a-23 C)				
DESCRIPTION	SYMBOL	TIP130/135	TIP131/136	TIP132/137	UNIT
Collector Emitter Voltage	V_{CEO}	60 80		100	V
Collector Base Voltage	V_{CBO}	60 80 100		100	V
Emitter Base Voltage	V_{EBO}	5.0			
Collector Current Continuous	I _C	8.0			Α
Collector Current Peak	I _{CM}	12			
Base Current	I _B	0.3			Α
Power Dissipation upto T _c =25°C	P_D	70			W
Power Dissipation upto T _a =25°C	P_{D}	2.0			W
Derate above 25°C		16			mW/ºC
Operating And Storage Junction Temperature	T_j , T_{stg}	- 65 to +150			°C

THERMAL RESISTANCE

Junction to Case	R _{th (j-c)}	1.78	°C/W
Junction to Ambient in free air	R _{th (j-a)}	62.5	°C/W

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

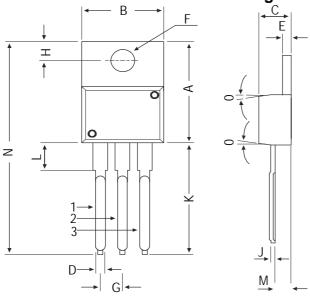
DESCRIPTION	SYMBOL	TEST CONDITION		MIN	MAX	UNIT
Collector Cut off Current	I _{CEO}	V _{CE} = Half Rated V _{CEO}			0.5	mA
Collector Cut off Current	I _{CBO}	V _{CB} = Rated V _{CBO}			0.2	mA
Emitter Cut off Current	I _{EBO}	V _{EB} =5V, I _C =0			5.0	mA
Collector Emitter (sus) Voltage	*V _{CEO(sus)}	$I_C=30$ mA, $I_B=0$	TIP130/135	60		V
			TIP131/136	80		V
			TIP132/137	100		V
Collector Emitter Saturation	*V _{CE (sat)}	I _C =4A, I _B =16mA			2.0	V
Voltage		$I_C=6A$, $I_B=30mA$			3.0	V
Base Emitter on Voltage	*V _{BE(on)}	I _C =4A, V _{CE} =4V			2.5	V
DC Current Gain	*h _{FE}	I _C =1A, V _{CE} =4V		500		
		$I_C=4A$, $V_{CE}=4V$		1,000	15,000	

^{*}Pulse Test : Pulse width \leq 300ms, Duty Cycle \leq 2%

TIP130 TIP135
TIP131 TIP136
TIP132 TIP137
NPN PNP

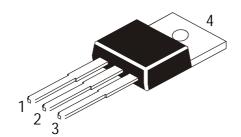
TO-220 Plastic Package

TO-220 Plastic Package



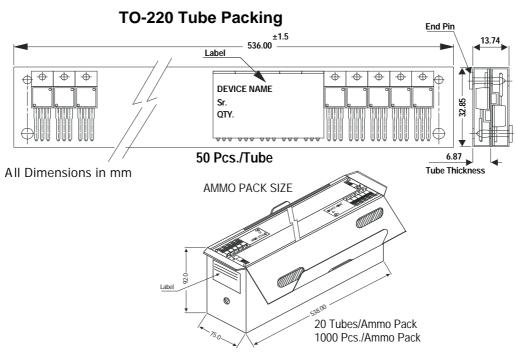
DIM	MIN MAX		
Α	14.42	16.51	
В	9.63	10.67	
С	3.56	4.83	
D	_	0.90	
E	1.15	1.40	
F	3.75	3.88	
G	2.29	2.79	
Н	2.54	3.43	
J	_	0.56	
K	12.70	14.73	
L	2.80	4.07	
М	2.03	2.92	
N	_	31.24	
0	7 DEG		

All diminsions in mm.



Pin Configuration

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



Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	GrWt
TO-220	200 pcs/polybag 50 pcs/tube	,	3" x 7.5" x 7.5" 3.5" x 3.7" x 21.5"	1.0K 1.0K	17" x 15" x 13.5" 19" x 19" x 19"	16.0K 10.0K	36 kgs 29 kgs

Notes

TIP130 TIP135 TIP131 TIP136 TIP132 TIP137 NPN PNP

TO-220 Plastic Package

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 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 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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