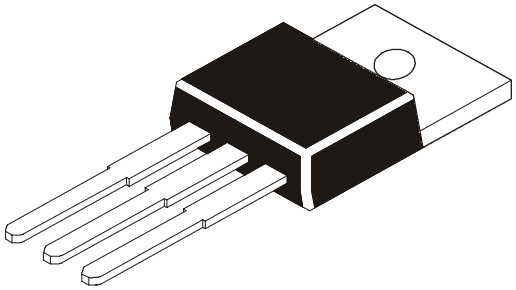
PNP SILICON PLASTIC POWER DARLINGTON TRANSISTOR

CP107
(9AW)
TO-220
Non- Iso



MARKING: CP 107

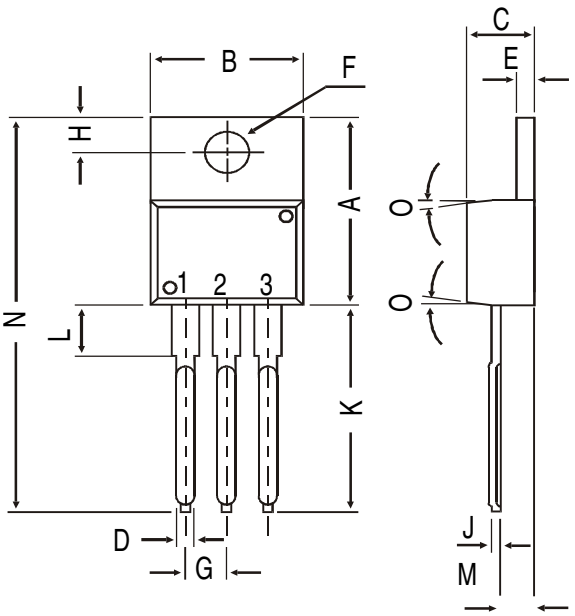
ABSOLUTE MAXIMUM RATINGS(Ta=25deg C)

DESCRIPTION	SYMBOL	VALUE	UNIT
Collector -Base Voltage	VCBO	140	V
Collector -Emitter Voltage	VCEO	130	V
Emitter Base Voltage	VEBO	5.0	V
Collector Current	IC	10	A
Peak t=30ms	ICP	15	A
Base Current	IB	1.0	A
Collector Power Dissipation @ Tc=25 deg C	PC	60	W
Junction Temperature	Tj	150	deg C
Storage Temperature Range	Tstg	-55 to +150	deg C

ELECTRICAL CHARACTERISTICS (Ta=25 deg C Unless Specified)

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Collector Cut off Current	ICBO	VCB=140V, IE=0	-	-	100	uA
Emitter Cut off Current	IEBO	VEB=5V, IC=0	-	-	3.0	mA
Collector Emitter Voltage	VCEO	IC=30mA, IB=0	130	-	-	V
DC Current Gain	hFE	IC=6A, VCE=4V	2.0	-	20	K
		IC=10A, VCE=4V	1.0	-	-	K
Collector Emitter Saturation Voltage	VCE(Sat)	IC=6A, IB=6mA	-	-	2.5	V
Base Emitter Saturation Voltage	VBE(Sat)	IC=6A, IB=6mA	-	-	3.0	V
Dynamic Characteristics						
Transition Frequency	ft	VCE=12V, IC=1A,	-	65	-	MHz
Collector Output Capacitance	Cob	VCB=10V, IE=0 f=1MHz	-	160	-	pF

TO-220 Plastic Package

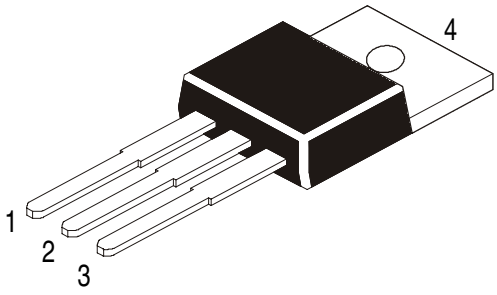


DIM	MIN.	MAX.
A	14.42	16.51
B	9.63	10.67
C	3.56	4.83
D	—	0.90
E	1.15	1.40
F	3.75	3.88
G	2.29	2.79
H	2.54	3.43
J	—	0.56
K	12.70	14.73
L	2.80	4.07
M	2.03	2.92
N	—	31.24
O	DEG 7	

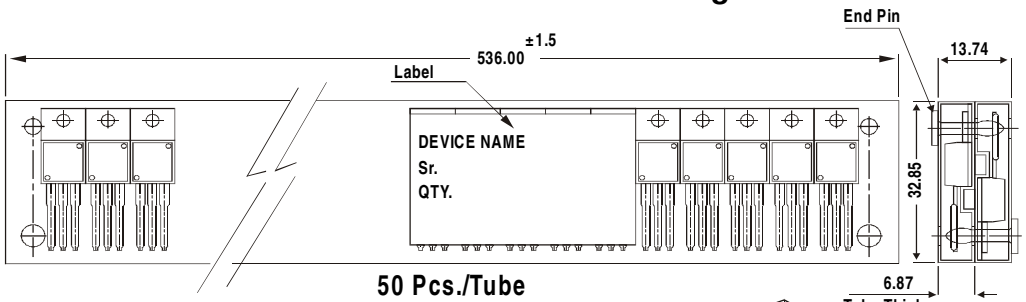
All diminsions in mm.

PIN CONFIGURATION

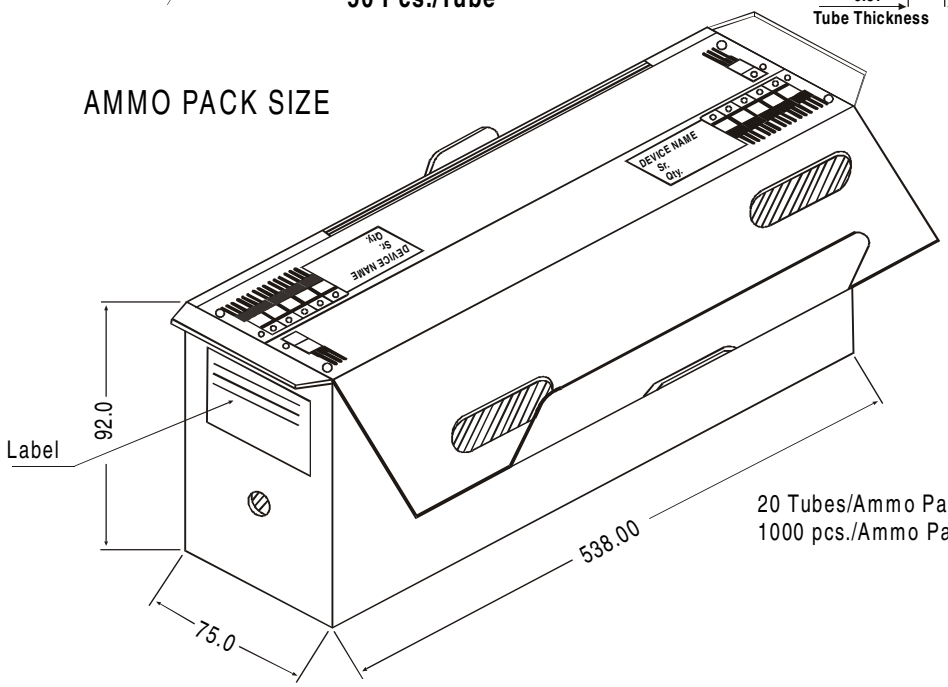
1. BASE
2. COLLECTOR
3. EMITTER
4. COLLECTOR



TO-220 Tube Packing



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-220 / FP	200 pcs/polybag 50 pcs/tube	396 gm/200 pcs 120 gm/50 pcs	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

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 on the CDIL Web Site/CD is 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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