

## Continental Device India Limited

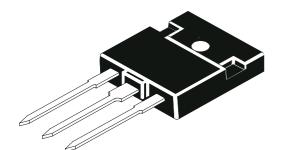
An ISO/TS 16949, ISO 9001 and ISO 14001 Certified Company





# NPN SILICON PLASTIC POWER DARLINGTON TRANSISTOR

CN1016 (9AW) **TO-3P** 



**MARKING:-**CN

1016

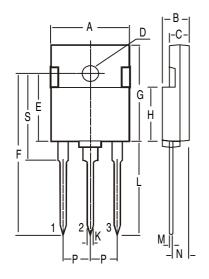
ABSOLUTE MAXIMUM RATINGS(Ta=25deg C)

DESCRIPTION	SYMBOL	VALUE	UNIT
Collector -Base Voltage	VCBO	160	V
Collector -Emitter Voltage	VCEO	150	V
Emitter Base Voltage	VEBO	5.0	V
Collector Current	IC	10	Α
Peak t=30ms	ICP	15	Α
Base Current	IB	1.0	Α
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	CHARAC.	TERISTICS	(Ta-25 dag	C Unlace	Specified)
ELECTRICAL	. CHANAC	IENISIICS	Tra=25 ueu	C UIIIE35	Specified

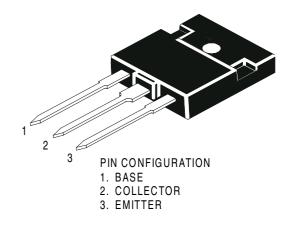
ELECTRICAL CHARACTERISTICS (Ta=25 deg C Offices Specified)								
DESCRIPTION	SYMBOL	<b>TEST CONDITION</b>	MIN	TYP	MAX	UNIT		
Collector Cut off Current	ICBO	VCB=160V, IE=0	-	-	100	uA		
<b>Emitter Cut off Current</b>	IEBO	VEB=5V, IC=0	-	-	3.0	mΑ		
Collector Emitter Voltage	VCEO	IC=30mA, IB=0	150	-	-	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,	-	80	-	MHz		
Collector Output Capacitance	Cob	VCB=10V, IE=0 f=1MHz	-	85	-	pF		

## TO-3P (TO-218) Plastic Package



DIM	MIN.	MAX.
Α	15.80	16.40
В	5.20	5.70
С	3.80	4.20
D	Ø3.30	Ø3.60
Е	14.50	15.10
F	33.25	36.75
G	20.75	21.25
Н	11.50	12.25
K	1.00	1.30
L	18.75	21.65
M	0.40	0.60
N	3.15	3.45
Р	5.21	5.72
S	18.75	19.25

All dimensions in mm.



TO BE MOUNTED WITH SILICONE GREASE ON THE BACK SIDE, ENSURING BACK SIDE HOLES FILLED.

# **Packing Detail**

PACKAGE	STANDARD PACK		PACK INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
T0-3P	100 pcs/polybag	628 gm/100 pcs	3" x 7.5" x 7.5"	0.3K	17" x 15" x 13.5"	4.8K	42 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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