

Continental Device India Limited

An IS/ISO 9002 and IECQ Certified Manufacturer



NPN SILICON PLASTIC POWER DARLINGTON TRANSISTOR

Designed for Relay Drive and Motor Drive

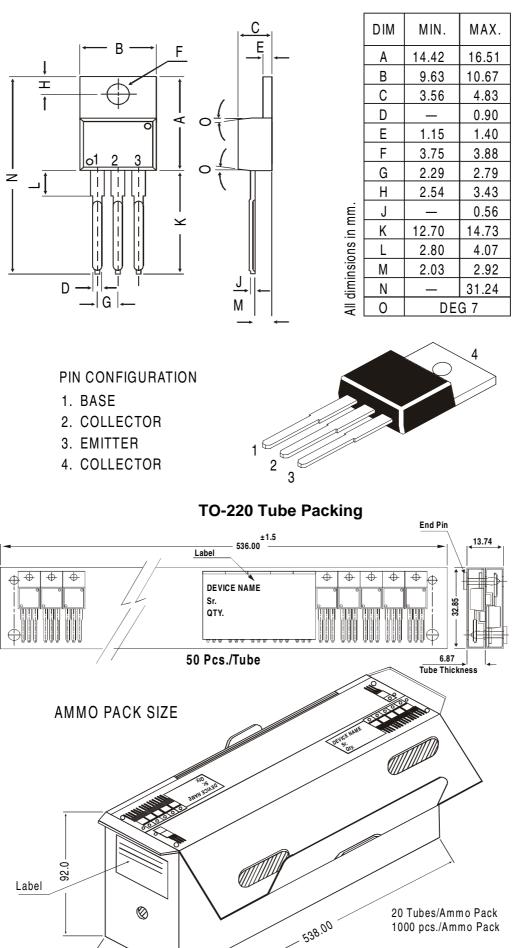
ABSOLUTE MAXIMUM RATINGS(Ta=25deg C)

DESCRIPTION	SYMBOL		VALUE			UNIT					
Collector -Base Voltage	VCBO		110			V					
Collector -Emitter Voltage	VCEO		110			V					
Emitter Base Voltage	VEBO		5.0			V					
Collector Current	IC		8.0			А					
t=50ms	ICP		12			А					
Base Current	IB		1.0			А					
Collector Power Dissipation @ Ta=25 deg C	PC		2.0			W					
Collector Power Dissipation @ Tc=25 deg C			60			W					
Junction Temperature	Тј		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 Emitter Voltage	VCEO	IC=5mA, IB=0	110	-	-	V					
Collector -Base Voltage	VCBO	IC=50uA, IE=0	110	-	-	V					
Emitter Base Voltage	VEBO	IE=5mA, IC=0	5.0	-	-	V					
Collector Cut off Current	ICBO	VCB=110V, IE=0	-	-	100	uA					
Emitter Cut off Current	IEBO	VEB=5V,IC=0	-	-	3.0	mA					
Collector Emitter Saturation Voltage	VCE(Sat)	IC=5A,IB=5mA	-	-	2.5	V					
DC Current Gain	hFE	IC=2A, VCE=3V	1.0	-	20	K					
		IC=8A, VCE=3V	1.0	-	-	K					
Dynamic Characteristics											
Transition Frequency	ft	VCE=5V,IC=0.2A,	-	40	-	MHz					
		f=10MHz									
Collector Output Capacitance	Cob	VCB=10V, IE=0	-	70	-	pF					
		f=1MHz									

CSD811

MARKING : CSD 811

TO-220 Plastic Package



1000 pcs./Ammo Pack

75.0~

Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX			
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt	
T0-220 / FP	200 pcs/polybag 50 pcs/tube	5, 1	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).

CDIL strives for continuous improvement and reserves the right to change the specifications of its products without prior notice.



CDIL is a registered Trademark of **Continental Device India Limited** C-120 Naraina Industrial Area, New Delhi 110 028, India. Telephone + 91-11-579 6150 Fax + 91-11-579 9569, 579 5290 e-mail sales@cdil.com www.cdil.com

Data Sheet