

Continental Device India Limited

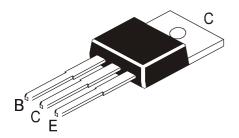
An ISO/TS 16949, ISO 9001 and ISO 14001 Certified Company





NPN SILICON POWER TRANSISTOR

CSD880 TO-220



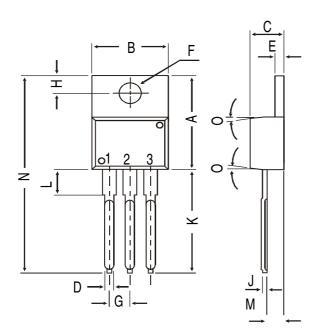
Audio Frequency Power Amplifier Applications. Complementary CSB834

ABSOLUTE MAXIMUM RATINGS(Ta=25deg C)

DESCRIPTION	SYMBOL	VALUE	UNIT
Collector -Base Voltage	VCBO	60	V
Collector -Emitter Voltage	VCEO	60	V
Emitter- Base Voltage	VEBO	7.0	V
Collector Current	IC	3.0	Α
Base Current	IB	0.5	Α
Power Dissipation @ Ta=25 deg C	PC	1.5	W
Power Dissipation @ Tc=25 deg C		30	W
Junction Temperature	Tj	150	deg C
Storage Temperature Range	Tstg	-55 to +150	deg C

- 3					3.59.5
leg C Unless	otherwise Specified)				
SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
ICBO	VCB=60V, IE=0	-	-	100	uA
IEBO	VEB=7V, IC=0	-	-	100	uA
VCEO	IC=50mA, IB=0	60	-	-	V
hFE	IC=0.5A, VCE=5V	60	-	300	
VCE(Sat)	IC=3A, IB=0.3A	-	-	1.0	V
VBE(on)	IC=0.5A, VCE=5V	-	-	1.0	V
ft	VCE=5V,IC=0.5A,	-	3.0	-	MHz
Cob	VCB=10V, IE=0	-	70	-	pF
	f=1MHz				
ton	VCC=30V,	-	0.8	-	us
tstg	IB1=IB2=0.2A,	-	1.5	-	us
tf	Pulse Width=20us	-	0.8	-	us
	Duty Cycle=1%				
O : 60 -120), Y:100-200,	GR :	150-300)	
	SYMBOL ICBO IEBO VCEO hFE VCE(Sat) VBE(on) ft Cob ton tstg tf	ICBO VCB=60V, IE=0 IEBO VEB=7V, IC=0 VCEO IC=50mA, IB=0 hFE IC=0.5A, VCE=5V VCE(Sat) IC=3A, IB=0.3A VBE(on) IC=0.5A, VCE=5V ft VCE=5V,IC=0.5A, Cob VCB=10V, IE=0 f=1MHz ton VCC=30V, tstg IB1=IB2=0.2A, tf Pulse Width=20us Duty Cycle=1%	SYMBOL TEST CONDITION MIN ICBO VCB=60V, IE=0 - IEBO VEB=7V, IC=0 - VCEO IC=50mA, IB=0 60 hFE IC=0.5A, VCE=5V 60 VCE(Sat) IC=3A, IB=0.3A - VBE(on) IC=0.5A, VCE=5V - ft VCE=5V,IC=0.5A, - - Cob VCB=10V, IE=0 - f=1MHz - - ton VCC=30V, - - tstg IB1=IB2=0.2A, - - tf Pulse Width=20us - - Duty Cycle=1% -	SYMBOL TEST CONDITION MIN TYP ICBO VCB=60V, IE=0 - - - IEBO VEB=7V, IC=0 - - - VCEO IC=50mA, IB=0 60 - hFE IC=0.5A, VCE=5V 60 - VCE(Sat) IC=3A, IB=0.3A - - VBE(on) IC=0.5A, VCE=5V - - ft VCE=5V,IC=0.5A, - 3.0 Cob VCB=10V, IE=0 - 70 f=1MHz - 0.8 tstg IB1=IB2=0.2A, - 1.5 tf Pulse Width=20us - 0.8 Duty Cycle=1% - 0.8	SYMBOL TEST CONDITION MIN TYP MAX ICBO VCB=60V, IE=0 - - 100 IEBO VEB=7V, IC=0 - - 100 VCEO IC=50mA, IB=0 60 - - hFE IC=0.5A, VCE=5V 60 - 300 VCE(Sat) IC=3A, IB=0.3A - - 1.0 VBE(on) IC=0.5A, VCE=5V - - 1.0 ft VCE=5V,IC=0.5A, - - 3.0 - Cob VCB=10V, IE=0 - 70 - f=1MHz - 0.8 - ton VCC=30V, - - 0.8 - tf Pulse Width=20us - 0.8 - Duty Cycle=1% - 0.8 -

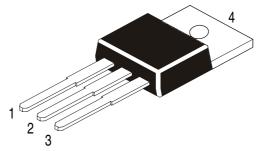
TO-220 Plastic Package



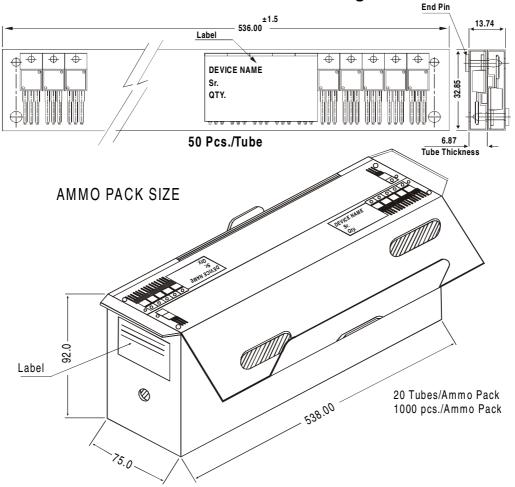
	DIM	MIN.	MAX.		
	Α	14.42	16.51		
	В	9.63	10.67		
	С	3.56	4.83		
	D	1	0.90		
	Е	1.15	1.40		
	F	3.75	3.88		
	G	2.29	2.79		
	Н	2.54	3.43		
Ē.	J	_	0.56		
'nπ	K	12.70	14.73		
Suc	L	2.80	4.07		
All diminsions in mm.	М	2.03	2.92		
Jimi	N	_	31.24		
¥(0	DEG 7			

PIN CONFIGURATION

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



TO-220 Tube Packing



Packing Detail

PACKAGE	CTAND A	DD DACK	INNED CARTON DOV		OUTED CARTON DOV		
PAUNAUE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
T0-220 / FP	200 pcs/polybag	396 gm/200 pcs	3" x 7.5" x 7.5"	1.0K	17" x 15" x 13.5"	16.0K	36 kgs
	50 pcs/tube	120 gm/50 pcs	3.5" x 3.7" x 21.5"	1.0K	19" x 19" x 19"	10.0K	29 kgs

Customer 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 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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