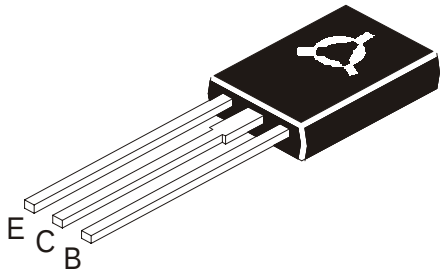
Continental Device India Limited

An ISO/TS16949 and ISO 9001 Certified Company

NPN PLASTIC POWER TRANSISTOR

CSD882

TO126
Plastic Package



Complementary CSB772

Audio Frequency Power Amplifier and Low Speed Switching Applications

ABSOLUTE MAXIMUM RATINGS(Ta=25ºC unless specified otherwise)

DESCRIPTION	SYMBOL	VALUE	UNIT
Collector Base Voltage(open emitter)	V_{CBO}	>40	V
Collector Emitter Voltage (open base)	V_{CEO}	>30	V
Emitter Base Voltage(open collector)	V_{EBO}	>5.0	V
Collector Current (DC)	I_C	<3.0	A
Collector Current (Pulse)	I_C	<7	A
Base Curent (DC)	I_B	<0.6	A
Total Power Dissipation@ Ta=25ºC	P_{tot}	<1.0	W
Total Power Dissipation@ Tc=25ºC	P_{tot}	<10	W
Junction Temperature	T_j	150	ºC
Storage Temperature Range	T_{stg}	-65 to +150	ºC

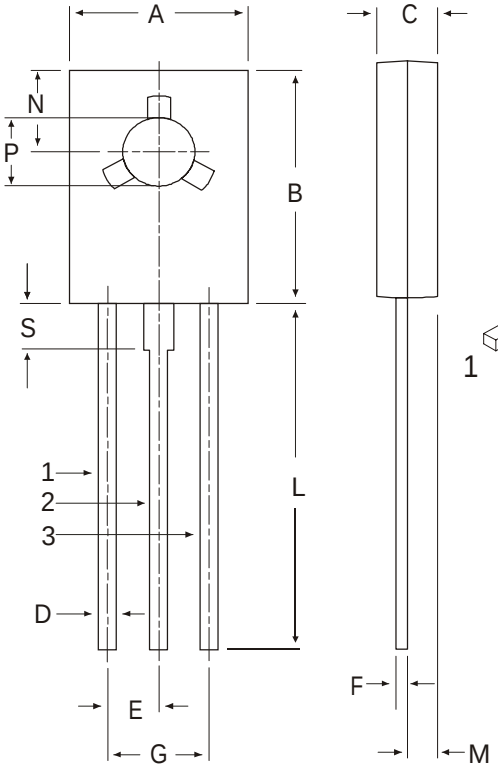
ELECTRICAL CHARACTERISTICS (Ta=25ºC unless specified otherwise)

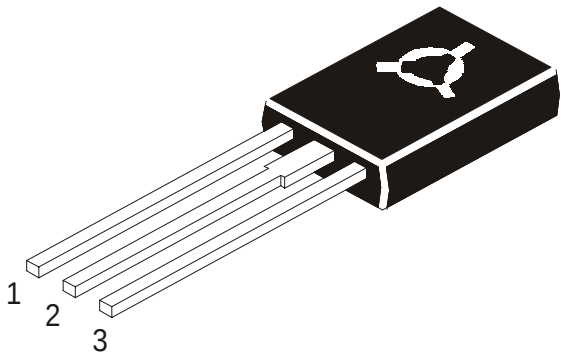
DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Collector-Cut off Current	I_{CBO}	I_E =0, V_{CB} =30V			1.0	µA
Emitter cut -off Current	I_{EBO}	I_C =0, V_{EB} =3V			1.0	µA
Breakdown Voltages	V_{CEO}	I_C =1mA, I_B =0	30			V
	V_{CBO}	I_C =1mA, I_E =0	40			V
	V_{EBO}	I_C =0, I_E =1mA	5			V
Saturation Voltages	$V_{CE\ (sat)}$*	I_C=2A, I_B=0.2A			0.5	V
	$V_{BE\ (sat)}$*	IC=2A, IB=0.2A			2.0	V
DC Current Gain	h_{FE}*	I_C=20mA,V_{CE}=2V	30			
	h_{FE}*	I_C=1A,V_{CE}=2V**	60		400	
Output Capacitance at f=1MHz	Co	I_E =0, V_{CB} =10V,		45		pF
Transition Frequency	f_T	I_C=0.1A, V_{CE}=5V		90		MHz

*** Pulse test : pulse width ≤350µs ; duty cycle ≤2%**

****h_{FE} classification : R : 60-120 Q: 100-200 P: 160-320 E: 200-400**

TO-126 (SOT-32) Plastic Package





Pin Configuration

1. Emitter
2. Collector
3. Base

DIM	MIN	MAX
A	7.4	7.8
B	10.5	10.8
C	2.4	2.7
D	0.7	0.9
E	2.25 TYP.	
F	0.49	0.75
G	4.5 TYP.	
L	15.7 TYP.	
M	1.27 TYP.	
N	3.75 TYP.	
P	3.0	3.2
S	2.5 TYP.	

All diminsions in mm.

Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
TO-126 Bulk	500 pcs/polybag	340 gm/500 pcs	3" x 7.5" x 7.5"	2K	17" x 15" x 13.5"	32K	31 kgs
TO-126 Tube	50 pcs/tube	73 gm/50 pcs	3" x 3.7" x 21.5"	1K	19" x 19" x 19"	10K	15 kgs

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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