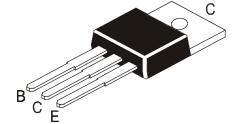




An ISO/TS 16949, ISO 9001 and ISO 14001 Certified Company

PNP PLASTIC POWER TRANSISTOR

CSB856



TO-220 Plastic Package

LOW FREQUENCY POWER AMPLIFIER ABSOLUTE MAXIMUM RATINGS

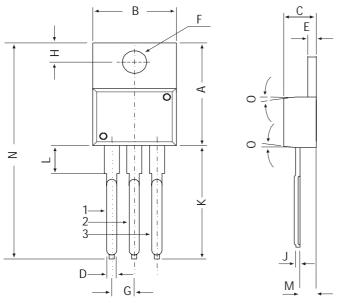
DESCRIPTION	SYMBOL	VALUE	UNIT
Collector -Emitter Voltage	$V_{\sf CEO}$	50	V
Collector -Base Voltage	V_{CBO}	50	V
Emitter Base Voltage	V_{EBO}	4.0	V
Collector Current Continuous	I _C	3.0	Α
Power Dissipation @ Tc=25 ° C	P_{D}	25	W
Operating & Storage Junction	T_{i},T_{stg}	-65 to +150	° C
Temperature Range	, 3		

ELECTRICAL CHARACTERISTICS (Tc=25 ° C unless specified)

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	MAX	UNIT
Collector cutoff current	I_{CBO}	$I_E=0;V_{CB}=20V$		100	μΑ
Collector-Emitter Voltage	V_{CEO}	$I_C=50$ mA, $I_B=0$	50		V
Collector Base Voltage	V_{CBO}	$I_C=5mA$, $I_E=0$ 50			V
Emitter Base Voltage	V_{EBO}	$I_E=5mA$, $I_C=0$	4		V
DC Current Gain	h _{FE} **	$I_C=1A$, $V_{CE}=4V$	35	200	
	h _{FE} *	$I_C=0.1A$, $V_{CE}=4V$	35		
Collector Emitter Saturation Voltage	$V_{CE(SAT)}^*$	$I_C=2A$, $I_B=200mA$		1.2	V
	$V_{BE(on)}^*$	$I_C=1A$, $V_{CE}=4V$		1.5	V
Transition frequency	f_T	$I_C=0.5A$, $V_{CE}=4V$	35 typ		MHz
*Pulse Test PW=300ms, Duty Cycle=2%					
** hFE classification : A 35-70	B 60-120	C 100-200	•		

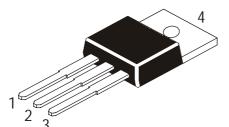
TO-220 Plastic Package

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DIM	MIN	MAX	
Α	14.42	16.51	
В	9.63	10.67	
С	3.56	4.83	
D	_	0.90	
E	1.15	1.40	
F	3.75	3.88	
G	2.29	2.79	
Н	2.54	3.43	
J	_	0.56	
K	12.70	14.73	
L	2.80	4.07	
М	2.03	2.92	
N	_	31.24	
0	7 DEG		

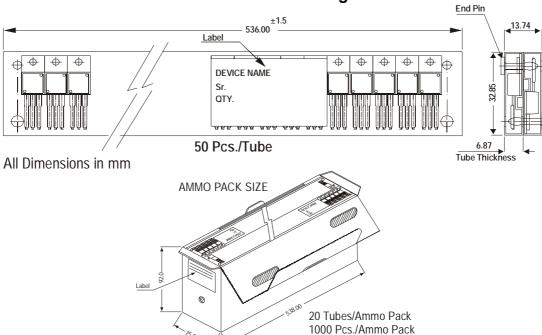
All diminsions in mm.



Pin Configuration

- 1. Base
- 2. Collector
- 3. Emitter
- 4. Collector

TO-220 Tube Packing



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		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 CSB856

TO-220 Plastic Package

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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