

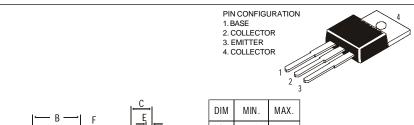


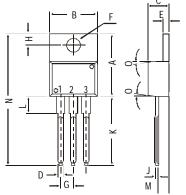
TO-220 Plastic Package

CSB857, CSB858 CSD1133, CSD1134

CSB857, 858 PNP PLASTIC POWER TRANSISTORS CSD1133, 1134 NPN PLASTIC POWER TRANSISTORS

Low frequency Power Amplifier





DIM	MIN.	MAX.	
Α	14.42	16.51	
В	9.63	10.67	
С	3.56	4.83	
D		0.90	
Ε	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	
Ν		31.24	
0	DEG 7		
	A B C D E F G H J K L	A 14.42 B 9.63 C 3.56 D E 1.15 F 3.75 G 2.29 H 2.54 J K 12.70 L 2.80 M 2.03 N	

057

857

050

858

ABSOLUTE MAXIMUM RATINGS

		83/	ьэь 1134	
		<i>1133</i>		
Collector-base voltage (open emitter)	V_{CBO}	max. 70		70 V
Collector-emitter voltage (open base)	$V_{C\!E\!O}$	max. 50		60 V
Collector current	I_C	max.	4.0	\boldsymbol{A}
Total power dissipation up to $T_C = 25^{\circ}C$	P_{tot}	max.	40	W
Junction temperature	T_{i}	max.	<i>150</i>	${}^{\!$
Collector-emitter saturation voltage	,			
$I_C = 2 A; I_B = 200 mA$	V_{CEsat}	max.	1.0	V
D.C. current gain				
$I_C = 1 A; V_{CE} = 4 V$	$h_{\!F\!E}$	min.	60	
		max.	320	

RATINGS (at T_A =25°C unless otherwise specified) Limiting values

		<i>1133</i>	<i>1134</i>	
Collector-base voltage (open emitter)	V_{CBO}	max. 70	70 V	
Collector-emitter voltage (open base)	$V_{C\!E\!O}$	max. 50	60 V	
Emitter-base voltage (open collector)	V_{EBO}	max.	5.0 V	

15

7.0

typ.

typ.

MHz

MHz

Callaston aumont	<i>T</i>		4.0	4
Collector current (Peak value)	I_C	max.	4.0 8.0	A A
Collector current (Peak value)	I_C	max.		
Total power dissipation up to $T_C = 25^{\circ}C$	P_{tot}	max.	40	W
Junction temperature	T_j	max.	150 €	
Storage temperature	T_{Stg}	-65 to +150 ℃		50 °C
CHARACTERISTICS				
$T_{amb} = 25^{\circ}C$ unless otherwise specified				
		857 858 1133 1134		58
				34
Collector cutoff current				
$I_E = 0; \ V_{CB} = 50V$	I_{CBO}	max.	1.0	μA
Breakdown voltages				•
$I_C = 50 \text{ mA}; I_B = 0$	$V_{C\!EO}$	min. 50	,	60 V
$IC = 10 \ \mu A; IE = 0$	V_{CBO}	min.	70	V
$I_E = 10 \ \mu A; I_C = 0$	V_{EBO}	min.	5.0	V
Saturation voltage				
$I_C = 2 A$; $I_B = 0.2 A$	V_{CEsat}^*	max.	1.0	V
Base emitter on voltage				
$I_C = 1 A$; $V_{CE} = 4 V$	$V_{BE(on)}^*$	max.	1.0	V
D.C. current gain	. ,			
IC = 0.1 A; VCE = 4 V	$h_{\!F\!E^*}$	min.	35	
$I_C = 1.0 A; V_{CE} = 4 V^{**}$	$h_{\!F\!E^*}$	min.	60	
		max.	320	
Transition frequency				

 f_T

PNP

NPN

 $I_C = 0.5 A; V_{CE} = 4 V$

^{**} hfe classification: B: 60-120 C: 100-200 D: 160-320

^{*} Pulse test

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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