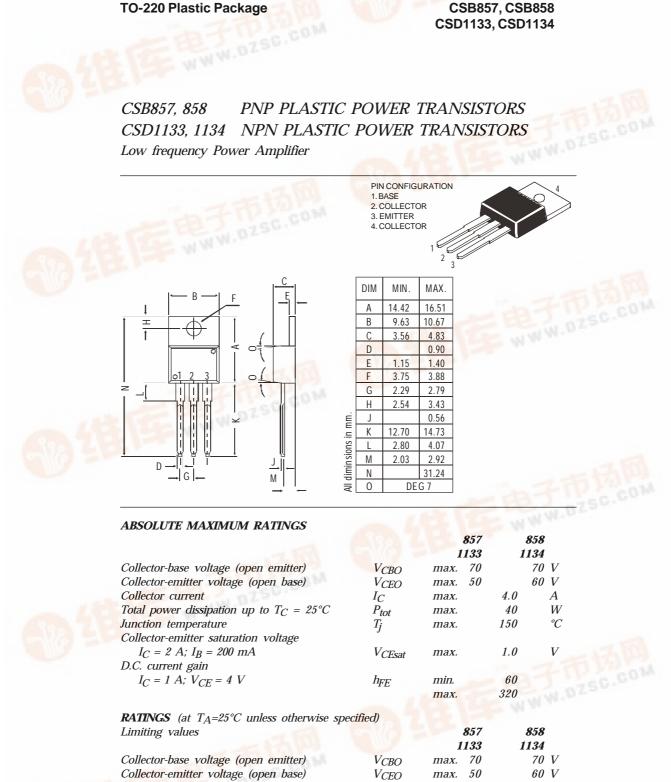


An ISO/TS 16949, ISO 9001 and ISO 14001 Certified Company





 V_{EBO}

Data Sheet

max.

5.0

V

Emitter-base voltage (open collector)

Continental Device India Limited

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CSB857, CSB858 CSD1133, CSD1134

Collector current	I_C	max.	4.0	A
Collector current (Peak value)	I_C	max.	8.0	A
Total power dissipation up to $T_C = 25^{\circ}C$	P _{tot}	max.	40	W
Junction temperature	T_{i}	max.	150	${}^{\mathcal{C}}$
Storage temperature	Ť _{stg}		-65 to +150	С

CHARACTERISTICS

 $T_{amb} = 25^{\circ}C$ unless otherwise specified

			8 57	8 3	<i>858</i>	
			1133	113	34	
Collector cutoff current						
$I_E = 0; V_{CB} = 50V$		I _{CBO}	max.	1.0	μA	
Breakdown voltages						
$I_C = 50 \ mA; \ I_B = 0$		V_{CEO}	min. 50	l	30 V	
$I_C = 10 \ \mu A; \ I_E = 0$		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						
$I_C = 0.1 \; A; \; V_{CE} = 4 \; V$		hFE*	min.	35		
$I_C = 1.0 A; V_{CE} = 4 V^{**}$		h_{FE^*}	min.	60		
			max.	320		
Transition frequency						
$I_C = 0.5 A; V_{CE} = 4 V$	PNP	f_T	typ.	15	MHz	
	NPN		typ.	7.0	MHz	
$I_C = 0.5 A; V_{CE} = 4 V$		f_T				

** h_{FE} 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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CDIL is a registered Trademark of Continental Device India Limited C-120 Naraina Industrial Area, New Delhi 110 028, India. Telephone + 91-11-2579 6150, 5141 1112 Fax + 91-11-2579 5290, 5141 1119 email@cdil.com www.cdilsemi.com