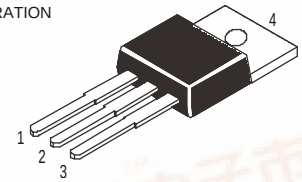
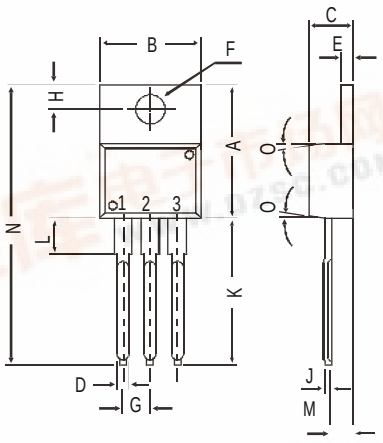
Continental Device India Limited
An ISO/TS16949 and ISO 9001 Certified Company

CSA614 PNP PLASTIC POWER TRANSISTOR
CSD288 NPN PLASTIC POWER TRANSISTOR

Low frequency Power Amplifier and Power Regulator

PIN CONFIGURATION
1. BASE
2. COLLECTOR
3. EMITTER
4. COLLECTOR





All diminsions in mm.

DIM	MIN.	MAX.
A	14.42	16.51
B	9.63	10.67
C	3.56	4.83
D		0.90
E	1.15	1.40
F	3.75	3.88
G	2.29	2.79
H	2.54	3.43
J		0.56
K	12.70	14.73
L	2.80	4.07
M	2.03	2.92
N		31.24
O	DEG 7	

ABSOLUTE MAXIMUM RATINGS

			614	288	
Collector-base voltage (open emitter)	V_{CBO}	*max.*	*80*	*80*	*V*
Collector-emitter voltage (open base)	V_{CEO}	*max.*	*55*	*55*	*V*
Collector current	I_C	*max.*	*3.0*		*A*
Total power dissipation up to T_C = 25°C	P_{tot}	*max.*	*25*		*W*
Junction temperature	T_j	*max.*	*150*		*°C*
Collector-emitter saturation voltage					
I_C = 1 A; I_B = 0.1 A	V_{CEsat}	*max.*	*0.5*	*1.0*	*V*
D.C. current gain					
I_C = 0.5 A; V_{CE} = 5 V	h_{FE}	*min.*	*40*		
		max.	*240*		

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

Limiting values			614	288	
Collector-base voltage (open emitter)	V_{CBO}	*max.*	*80*	*80*	*V*
Collector-emitter voltage (open base)	V_{CEO}	*max.*	*55*	*55*	*V*
Emitter-base voltage (open collector)	V_{EBO}	*max.*	*5.0*		*V*

Collector current	I_C	*max.*	*3.0*	*A*
Total power dissipation up to T_C = 25°C	P_{tot}	*max.*	*25*	*W*
Junction temperature	T_j	*max.*	*150*	*°C*
Storage temperature	T_{stg}		*–65 to +150*	*°C*

CHARACTERISTICS

T_{amb} = 25°C unless otherwise specified

			614	***288***	
Collector cutoff current					
I_E = 0; V_{CB} = 50V	I_{CBO}	*max.*	*50*		*µA*
Breakdown voltages					
I_C = 10 mA; I_B = 0	V_{CEO}	*min.*	*55*		*V*
I_C = 500 µA; I_E = 0	V_{CBO}	*min.*	*80*		*V*
I_E = 500 µA; I_C = 0	V_{EBO}	*min.*	*5.0*		*V*
Saturation voltage					
I_C = 1 A; I_B = 0.1 A	V_{CEsat}	*max.*	*0.5*	*1.0*	*V*
D.C. current gain					
*I_C = 0.5A; V_{CE} = 5V***	h_{FE}	*min.*	*40*		
		max.	*240*		

***** h_{FE} classification: R: 40-80 O: 70-140 Y: 120-240***

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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