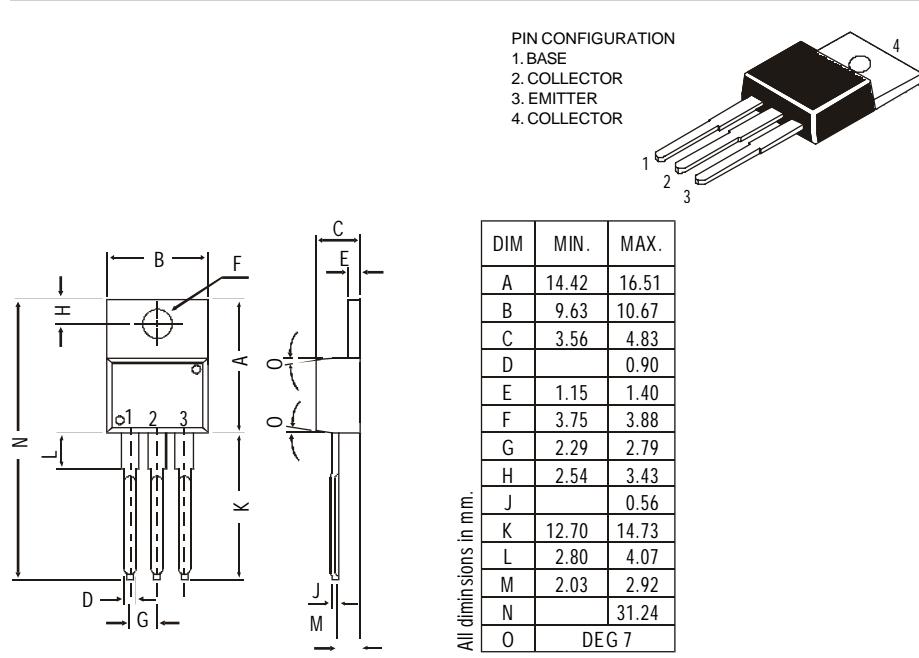


TO-220 Plastic Package

CSB546

CSB546 PNP PLASTIC POWER TRANSISTOR
Complementary CSD401
TV Vertical Deflection Output



ABSOLUTE MAXIMUM RATINGS

Collector-base voltage (open emitter)	V_{CBO}	max.	200 V
Collector-emitter voltage (open base)	V_{CEO}	max.	150 V
Collector current	I_C	max.	2 A
Total power dissipation up to $T_C = 25^\circ\text{C}$	P_{tot}	max.	25 W
Junction temperature	T_j	max.	150 °C
Collector-emitter saturation voltage	V_{CESat}	max.	1.0 V
$I_C = 500 \text{ mA}; I_B = 50 \text{ mA}$			
D.C. current gain	h_{FE}	min.	40
$I_C = 0.4 \text{ A}; V_{CE} = 10 \text{ V}$		max.	240

RATINGS (at $T_A=25^\circ\text{C}$ unless otherwise specified)

Limiting values

Collector-base voltage (open emitter)	V_{CBO}	max.	200 V
Collector-emitter voltage (open base)	V_{CEO}	max.	150 V
Emitter-base voltage (open collector)	V_{EBO}	max.	5.0 V
Collector current	I_C	max.	2 A

<i>Total power dissipation up to $T_C = 25^\circ C$</i>	P_{tot}	<i>max.</i>	<i>25 W</i>
<i>Junction temperature</i>	T_j	<i>max.</i>	<i>150 °C</i>
<i>Storage temperature</i>	T_{stg}	<i>-65 to +150 °C</i>	

CHARACTERISTICS

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

Collector cutoff current

$I_E = 0$; $V_{CB} = 150 V$

I_{CBO}

max.

50 μA

Breakdown voltages

$I_C = 10 mA$; $I_B = 0$

V_{CEO}

min.

150 V

$I_C = 500 \mu A$; $I_E = 0$

V_{CBO}

min.

200 V

$I_E = 500 \mu A$; $I_C = 0$

V_{EBO}

min.

5.0 V

Saturation voltages

$I_C = 500 mA$; $I_B = 50 mA$

V_{CEsat}

max.

1.0 V

D.C. current gain

$I_C = 0.4 A$; $V_{CE} = 10 V$ **

h_{FE}

min.

40

max.

240

Transition frequency

$I_C = 0.4 A$; $V_{CE} = 10 V$

f_T

typ.

5 MHz

** 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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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