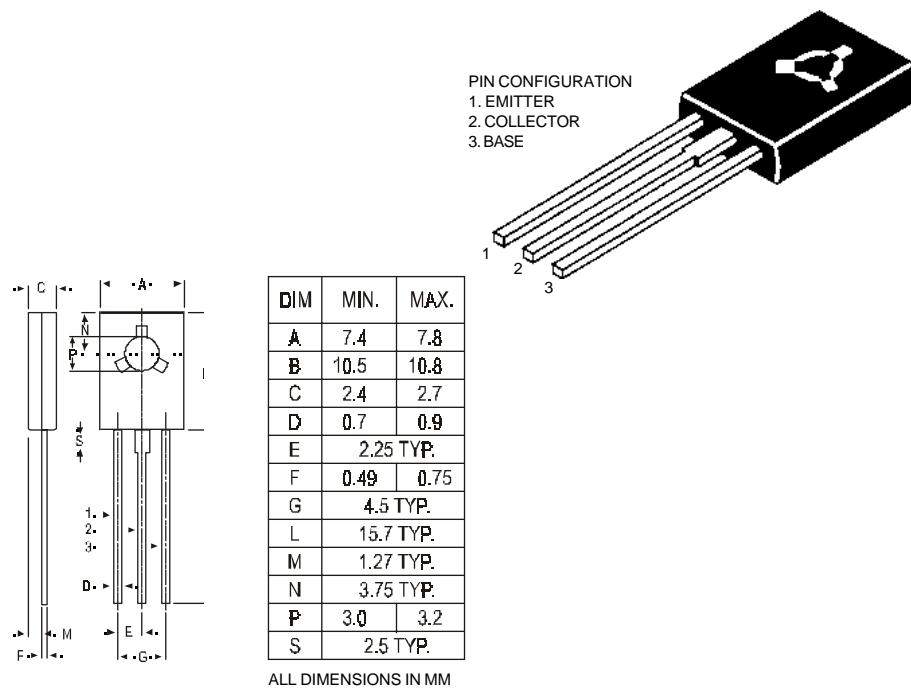


TO-126 (SOT-32) Plastic Package

CSC4217

CSC4217 NPN PLASTIC POWER TRANSISTOR

Colour TV Output, Sound Output, B/ W TV Video Output and Sound Output Applications



ABSOLUTE MAXIMUM RATINGS

Collector-base voltage (open emitter)	V_{CBO}	max.	300 V
Collector-emitter voltage (open base)	V_{CEO}	max.	300 V
Collector current	I_C	max.	200 mA
Total power dissipation up to $T_C = 25^\circ\text{C}$	P_C	max.	10 W
Junction temperature	T_J	max.	150 °C
Collector-emitter saturation voltage $I_C = 20 \text{ mA}; I_B = 2 \text{ mA}$	V_{CEsat}	max.	0.6 V
D.C. current gain $I_C = 10 \text{ mA}; V_{CE} = 10 \text{ V}$	h_{FE}	D	min. 60 max. 120

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

Limiting values

Collector-base voltage (open emitter)	V_{CBO}	max.	300 V
Collector-emitter voltage (open base)	V_{CEO}	max.	300 V
Emitter-base voltage (open collector)	V_{EBO}	max.	6.0 V
Collector current	I_C	max.	200 mA

CSC4217

<i>Collector current (pulse)</i>	I_{CP}	<i>max.</i>	400 mA
<i>Total power dissipation up to $T_A = 25^\circ\text{C}$</i>	P_C	<i>max.</i>	1.5 W
<i>Total power dissipation up to $T_C = 25^\circ\text{C}$</i>	P_C	<i>max.</i>	10 W
<i>Junction temperature</i>	T_j	<i>max.</i>	$150 \text{ }^\circ\text{C}$
<i>Storage temperature</i>	T_{stg}	<i>–65 to +150</i>	${}^\circ\text{C}$

CHARACTERISTICS

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

Collector cutoff current

$I_E = 0; V_{CB} = 200 \text{ V}$

I_{CBO}

max.

$0.1 \text{ } \mu\text{A}$

Emitter cut-off current

$I_C = 0; V_{EB} = 5 \text{ V}$

I_{EBO}

max.

$0.1 \text{ } \mu\text{A}$

Saturation voltages

$I_C = 20 \text{ mA}; I_B = 2 \text{ mA}$

V_{CEsat}

max.

0.6 V

V_{BEsat}

max.

1.0 V

D.C. current gain

$I_C = 10 \text{ mA}; V_{CE} = 10 \text{ V}$

h_{FE}

D

min.

60

max.

120

Transition frequency

$I_C = 10 \text{ mA}; V_{CE} = 10 \text{ V}$

f_T

typ.

70 MHz

Output capacitance

$V_{CB} = 50 \text{ V}; I_E = 0; f = 1 \text{ MHz}$

C_{ob}

typ.

3.5 pF

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 is 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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