

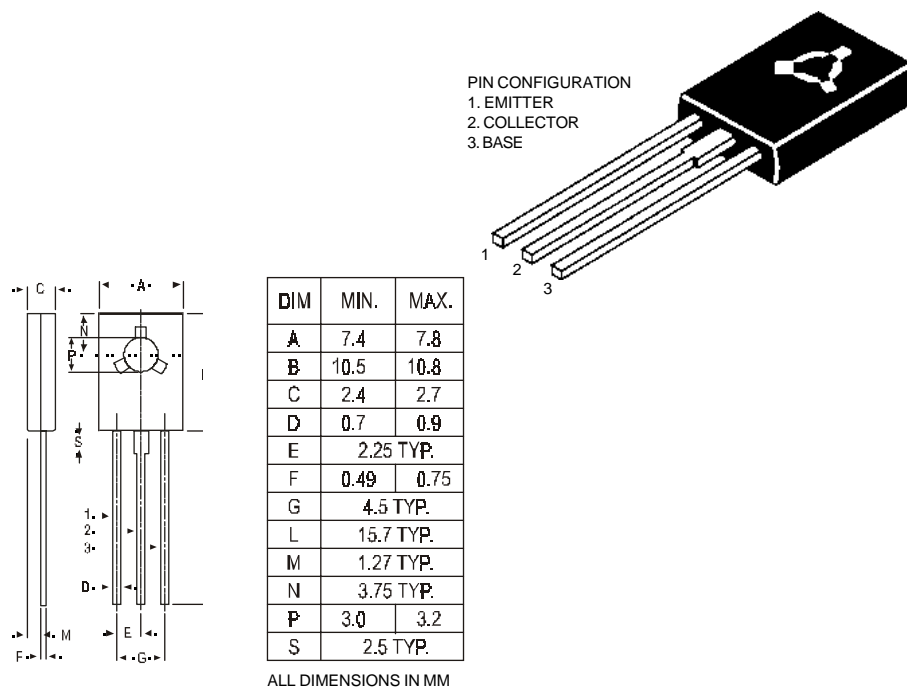
TO-126 (SOT-32) Plastic Package

CSC4217

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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

V_{CEsat} max. 0.6 V

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

D.C. current gain

$h_{FE} \quad D$ min. 60
max. 120

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

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

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Collector current (pulse)	I_{CP}	max.	400 mA
Total power dissipation up to $T_A = 25^\circ\text{C}$	P_C	max.	1.5 W
Total power dissipation up to $T_C = 25^\circ\text{C}$	P_C	max.	10 W
Junction temperature	T_j	max.	150 °C
Storage temperature	T_{stg}	-65 to +150	°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 μA
Emitter cut-off current $I_C = 0; V_{EB} = 5\text{ V}$	I_{EBO}	max.	0.1 μA
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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