

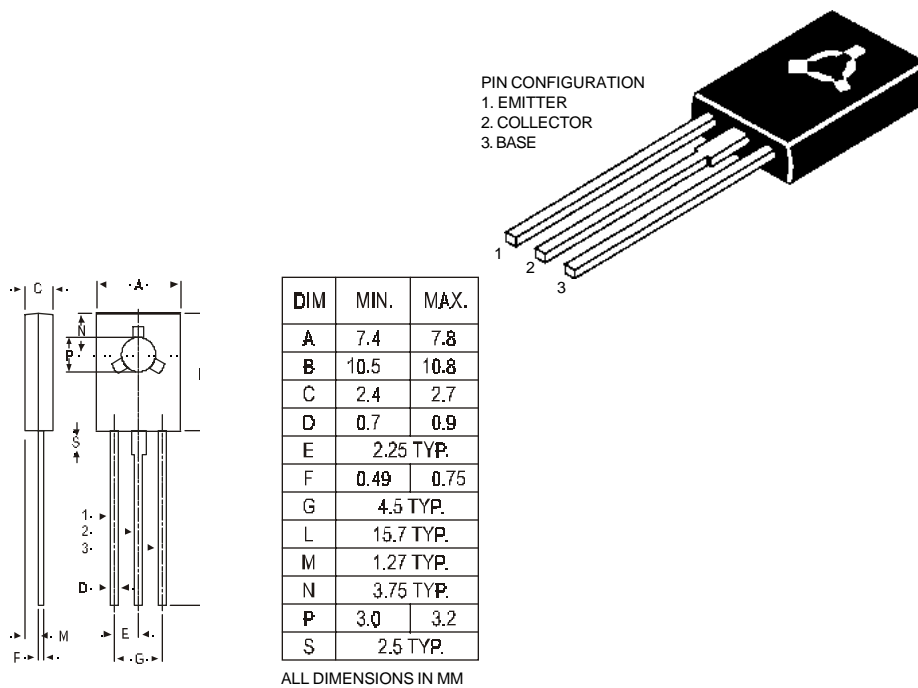
TO-126 (SOT-32) Plastic Package

CSC1162

CSC1162 NPN PLASTIC POWER TRANSISTOR

Complementary CSA715

Low frequency Power Amplifier



ABSOLUTE MAXIMUM RATINGS

Collector-base voltage (open emitter)

V_{CBO} max. 35 V

Collector-emitter voltage (open base)

V_{CEO} max. 35 V

Collector current

I_C max. 2.5 A

Total power dissipation up to $T_C = 25^\circ\text{C}$

P_{tot} max. 10 W

Junction temperature

T_j max. 150 $^\circ\text{C}$

Collector-emitter saturation voltage

V_{CEsat} max. 1.0 V

$I_C = 2\text{A}; I_B = 0.2\text{A}$

D.C. current gain

h_{FE} min. 60

$I_C = 0.5\text{A}; V_{CE} = 2\text{V}$

max. 320

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

Limiting values

Collector-base voltage (open emitter)

V_{CBO} max. 35 V

Collector-emitter voltage (open base)

V_{CEO} max. 35 V

CSC1162

Emitter-base voltage (open collector)	V_{EBO}	max.	5.0 V
Collector current	I_C	max.	2.5 A
Collector current (Peak)	I_C	max.	3.0 A
Total power dissipation up to $T_A = 25^\circ\text{C}$	P_{tot}	max.	0.75 W
Total power dissipation up to $T_C = 25^\circ\text{C}$	P_{tot}	max.	10 W
Junction temperature	T_j	max.	150 $^\circ\text{C}$
Storage temperature	T_{stg}		65 to +150 $^\circ\text{C}$

CHARACTERISTICS

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

Collector cutoff current $I_E = 0; V_{CB} = 35\text{V}$	I_{CBO}	max.	20 μA
Breakdown voltages $I_C = 10\text{ mA}; I_B = 0$	V_{CEO}	min.	35 V
$I_C = 1\text{ mA}; I_E = 0$	V_{CBO}	min.	35 V
$I_E = 1\text{ mA}; I_C = 0$	V_{EBO}	min.	5 V
Saturation voltage $I_C = 2\text{ A}; I_B = 0.2\text{ A}$	V_{CEsat}^*	max.	1.0 V
Base-emitter on voltage $I_C = 1.5\text{A}; V_{CE} = 2\text{V (Pulse)}$	$V_{BE(on)}$	max.	1.5 V
D.C. current gain $I_C = 0.5\text{ A}; V_{CE} = 2\text{ V}^{**}$	h_{FE}	min.	60
		max.	320
$I_C = 1.5\text{ A}; V_{CE} = 2\text{ V (Pulse)}$	h_{FE}	min.	20
Transition frequency $I_C = 0.2\text{ A}; V_{CE} = 2\text{ V}$	f_T	typ.	180 MHz

**** h_{FE} classification: B: 60-120 C: 100-200 D: 160-320**

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Disclaimer

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