

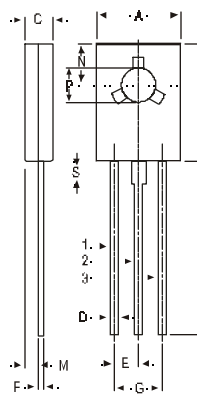
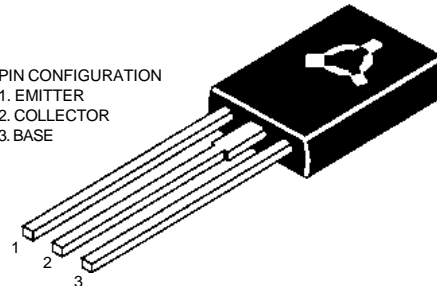
TO-126 (SOT-32) Plastic Package

CSA715

CSA715 PNP PLASTIC POWER TRANSISTOR

Complementary to CSC1162
Low frequency Power Amplifier

PIN CONFIGURATION
1. EMITTER
2. COLLECTOR
3. BASE



DIM	MIN.	MAX.
A	7.4	7.8
B	10.5	10.8
C	2.4	2.7
D	0.7	0.9
E	2.25 TYP.	
F	0.49	0.75
G	4.5 TYP.	
L	15.7 TYP.	
M	1.27 TYP.	
N	3.75 TYP.	
P	3.0	3.2
S	2.5 TYP.	

ALL DIMENSIONS IN MM

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 °C
Collector-emitter saturation voltage $I_C = 2\text{ A}; I_B = 0.2\text{ A}$	V_{CEsat}	max.	1.0 V
D.C. current gain $I_C = 0.5\text{ A}; V_{CE} = 2\text{ V}$	h_{FE}	min.	60
		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
Emitter-base voltage (open collector)	V_{EBO}	max.	5.0 V
Collector current	I_C	max.	2.5 A

CSA715

Collector current (Peak value)	I_C	max.	3 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 °C
Storage temperature	T_{stg}		-65 to +150 °C

CHARACTERISTICS

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

Collector cutoff current

$$I_E = 0; V_{CB} = 35 \text{ V}$$

I_{CBO}	max.	20 μA
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Breakdown voltages

$$I_C = 10 \text{ mA}; I_B = 0$$

V_{CEO}	min.	35 V
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$$I_C = 1 \text{ mA}; I_E = 0$$

V_{CBO}	min.	35 V
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$$I_E = 1 \text{ mA}; I_C = 0$$

V_{EBO}	min.	5 V
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Saturation voltage

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

V_{CEsat}	max.	1.0 V
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Base-emitter on voltage

$$I_C = 1.5 \text{ A}; V_{CE} = 2 \text{ V}$$

$V_{BE(on)}$	max.	1.5 V
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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
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Transition frequency

$$I_C = 0.2 \text{ A}; V_{CE} = 2 \text{ V}$$

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

Disclaimer

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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