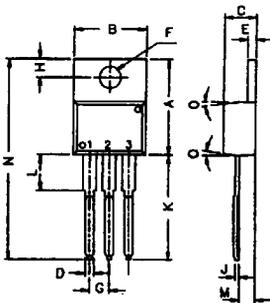
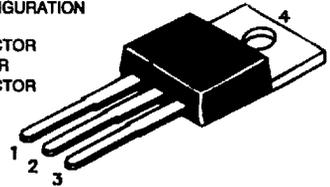


## CSB856 PNP PLASTIC POWER TRANSISTOR

Low frequency Power Amplifier.

### PIN CONFIGURATION

1. BASE
2. COLLECTOR
3. EMITTER
4. COLLECTOR



ALL DIMENSIONS ARE IN M.M.

DIM	MIN	MAX
A	14,42	16,51
B	9,53	10,67
C	3,56	4,83
D	—	0,90
E	1,15	1,40
F	3,75	3,88
G	2,29	2,79
H	2,54	3,43
J	—	0,56
K	12,70	14,73
L	—	6,35
M	2,03	2,92
N	—	31,24
O	7 DEG	

### ABSOLUTE MAXIMUM RATINGS

Collector-base voltage (open emitter)	$V_{CBO}$	max.	50 V
Collector-emitter voltage (open base)	$V_{CEO}$	max.	50 V
Collector current	$I_C$	max.	3.0 A
Total power dissipation up to $T_C = 25^\circ\text{C}$	$P_{tot}$	max.	25 W
Junction temperature	$T_j$	max.	150 $^\circ\text{C}$
Collector-emitter saturation voltage $I_C = 2 \text{ A}; I_B = 200 \text{ mA}$	$V_{CEsat}$	max.	1.2 V
D.C. current gain $I_C = 1 \text{ A}; V_{CE} = 4 \text{ V}$	$h_{FE}$	min.	35
		max.	200

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

Limiting values			
Collector-base voltage (open emitter)	$V_{CBO}$	max.	50 V
Collector-emitter voltage (open base)	$V_{CEO}$	max.	50 V
Emitter-base voltage (open collector)	$V_{EBO}$	max.	4.0 V
Collector current	$I_C$	max.	3.0 A
Total power dissipation up to $T_C = 25^\circ\text{C}$	$P_{tot}$	max.	25 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 $I_E = 0; V_{CB} = 20\text{ V}$	$I_{CBO}$	max.	100 $\mu\text{A}$
Breakdown voltages $I_C = 50\text{ mA}; I_B = 0$	$V_{CEO}^*$	min.	50 V
$I_C = 5\text{ mA}; I_E = 0$	$V_{CBO}$	min.	50 V
$I_E = 5\text{ mA}; I_C = 0$	$V_{EBO}$	min.	4.0 V
Saturation voltage $I_C = 2\text{ A}; I_B = 200\text{ mA}$	$V_{CEsat}^*$	max.	1.2 V
Base emitter on voltage $I_C = 1\text{ A}; V_{CE} = 4\text{ V}$	$V_{BE(on)}^*$	max.	1.5 V
D.C. current gain $I_C = 1\text{ A}; V_{CE} = 4\text{ V}$	$h_{FE}^{**}$	min.	35
		max.	200
$I_C = 0.1\text{ A}; V_{CE} = 4\text{ V}$	$h_{FE}^*$	min.	35
Transition frequency $I_C = 0.5\text{ A}; V_{CE} = 4\text{ V}$	$f_T$	typ.	35 MHz

\*\*  $h_{FE}$  classification: A 35-70, B 60-120, C 100-200

\* Pulse test.