

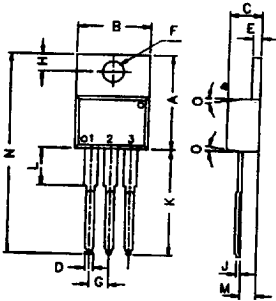
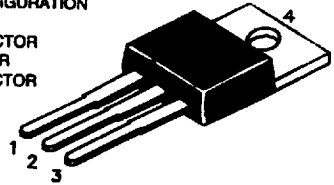
CSD401 NPN PLASTIC POWER TRANSISTOR

Complementary CSB546

TV Vertical Deflection Output Applications

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	9,63	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. 200 V

Collector-emitter voltage (open base)

V_{CEO} max. 150 V

Collector current

I_C max. 2 A

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

P_{tot} max. 25 W

Junction temperature

T_j max. 150 $^\circ C$

Collector-emitter saturation voltage

V_{CEsat} max. 1.0 V

$I_C = 500 \text{ mA}$; $I_B = 50 \text{ mA}$

D.C. current gain

h_{FE} min. 40
max. 400

$I_C = 0.4 \text{ A}$; $V_{CE} = 10 \text{ V}$

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

Limiting values

Collector-base voltage (open emitter)

V_{CBO} max. 200 V

Collector-emitter voltage (open base)

V_{CEO} max. 150 V

Emitter-base voltage (open collector)

V_{EBO} max. 5.0 V

Collector current	I_C	max.	2 A
Total power dissipation up to $T_C = 25^\circ\text{C}$	P_{tot}	max.	25 W
Junction temperature	T_j	max.	150 $^\circ\text{C}$
Storage temperature	T_{stg}	-65 to +150 $^\circ\text{C}$	

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

Collector cutoff current $I_E = 0; V_{CB} = 150 \text{ V}$	I_{CBO}	max.	50 μA
Breakdown voltages $I_C = 10 \text{ mA}; I_B = 0$	V_{CEO}	min.	150 V
$I_C = 500 \mu\text{A}; I_E = 0$	V_{CBO}	min.	200 V
$I_E = 500 \mu\text{A}; I_C = 0$	V_{EBO}	min.	5.0 V
Saturation voltages $I_C = 500 \text{ mA}; I_B = 50 \text{ mA}$	$V_{CE\text{sat}}$	max.	1.0 V
D.C. current gain $I_C = 0.4 \text{ A}; V_{CE} = 10 \text{ V}^{**}$	h_{FE}	min.	40
		max.	400
Transition frequency $I_C = 0.4 \text{ A}; V_{CE} = 10 \text{ V}$	f_T	typ.	5 MHz

**** h_{FE} classification: R: 40-80 O: 70-140 Y: 120-240 G: 200-400**