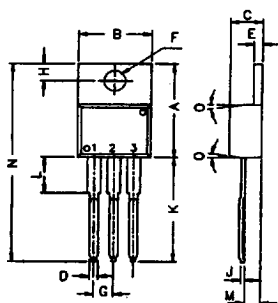
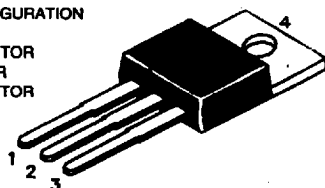


CSB1626 PNP Plastic Power Darlington Transistor

CSD2495 NPN Plastic Power Darlington Transistor

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. 110 V

Collector-emitter voltage (open base)

V_{CEO} max. 110 V

Collector current

I_C max. 6.0 A

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

P_D max. 30 W

Junction temperature

T_j max. 150 °C

Collector-emitter saturation voltage

V_{CEsat} max. 2.5 V

$I_C = 5 \text{ A}; I_B = 5 \text{ mA}$

D.C. current gain

h_{FE} min. 5 K

$I_C = 5 \text{ A}; V_{CE} = 4 \text{ V}$

max. 30 K

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

Limiting values

Collector-base voltage (open emitter)

V_{CBO} max. 110 V

Collector-emitter voltage (open base)

V_{CEO} max. 110 V

Emitter-base voltage (open collector)

V_{EBO} max. 5.0 V

Collector current

I_C max. 6.0 A

Base current

I_B max. 1.0 A

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

P_{tot} max. 30 W
 T_j max. 150°C
 T_{stg} -65 to $+150^\circ\text{C}$

CHARACTERISTICS

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

Collector cutoff current

$I_E = 0$; $V_{CB} = 110\text{ V}$

I_{CBO} max. $100\text{ }\mu\text{A}$

Emitter cut-off current

$I_C = 0$; $V_{EB} = 5\text{ V}$

I_{EBO} max. 2.0 mA

Breakdown voltage

$I_C = 30\text{ mA}$; $I_B = 0$

V_{CEO} min. 110 V

Saturation voltage

$I_C = 5\text{ A}$; $I_B = 5\text{ mA}$

$V_{CE\text{sat}}$ max. 2.5 V
 $V_{BE\text{sat}}$ max. 3.0 V

D.C. current gain

$I_C = 5\text{ A}$; $V_{CE} = 4\text{ V}$

h_{FE} min. 5 K
 max. 30 K
 h_{FE} min. 5.0 K
 max. 20 K

O/P

Transition frequency

$I_C = 0.5\text{ A}$; $V_{CE} = 12\text{ V}$

PNP
NPN

f_T typ. 100 MHz
 typ. 60 MHz

Output capacitance $f = 1\text{ MHz}$

$V_{CB} = 10\text{ V}$; $I_E = 0$

PNP
NPN

C_{ob} typ. 110 pF
 typ. 55 pF