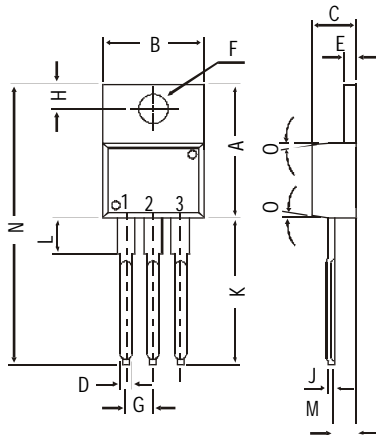
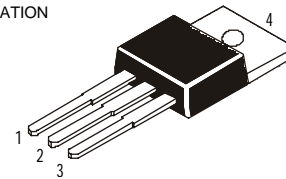


**TO-220 Plastic Package**

**CSB546**

**CSB546 PNP PLASTIC POWER TRANSISTOR**  
 Complementary CSD401  
 TV Vertical Deflection Output

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



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	2.80	4.07
M	2.03	2.92
N		31.24
O		DEG 7

All dimensions in mm.

**ABSOLUTE MAXIMUM RATINGS**

Collector-base voltage (open emitter)  
 Collector-emitter voltage (open base)  
 Collector current  
 Total power dissipation up to  $T_C = 25^\circ\text{C}$   
 Junction temperature  
 Collector-emitter saturation voltage  
 $I_C = 500 \text{ mA}; I_B = 50 \text{ mA}$   
 D.C. current gain  
 $I_C = 0.4 \text{ A}; V_{CE} = 10 \text{ V}$

$V_{CBO}$	max.	200 V
$V_{CEO}$	max.	150 V
$I_C$	max.	2 A
$P_{tot}$	max.	25 W
$T_j$	max.	150 °C
$V_{CEsat}$	max.	1.0 V
$h_{FE}$	min.	40
	max.	240

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

Limiting values  
 Collector-base voltage (open emitter)  
 Collector-emitter voltage (open base)  
 Emitter-base voltage (open collector)  
 Collector current

$V_{CBO}$	max.	200 V
$V_{CEO}$	max.	150 V
$V_{EBO}$	max.	5.0 V
$I_C$	max.	2 A

**CSB546**

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*

$I_E = 0; V_{CB} = 150\text{ V}$

$I_{CBO}$	max.	50 $\mu\text{A}$
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*Breakdown voltages*

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

$V_{CEO}$	min.	150 V
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$I_C = 500\ \mu\text{A}; I_E = 0$

$V_{CBO}$	min.	200 V
-----------	------	-------

$I_E = 500\ \mu\text{A}; I_C = 0$

$V_{EBO}$	min.	5.0 V
-----------	------	-------

*Saturation voltages*

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

$V_{CEsat}$	max.	1.0 V
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*D.C. current gain*

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

$h_{FE}$	min.	40
	max.	240

*Transition frequency*

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

$f_T$	typ.	5 MHz
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**\*\*  $h_{FE}$  classification: R: 40-80 O: 70-140 Y: 120-240**

## Customer Notes

### Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Discrete Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished on the CDIL Web Site/ CD are believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Discrete Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

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