



查询CSB631供应商

Continental Device India Limited

An ISO/TS16949 and ISO 9001 Certified Company

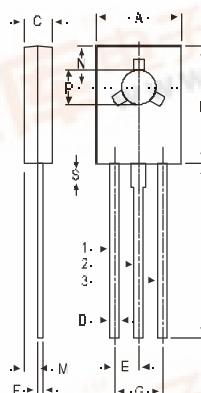
捷多邦，专业PCB打样工厂，24小时加急出货



### TO-126 (SOT-32) Plastic Package

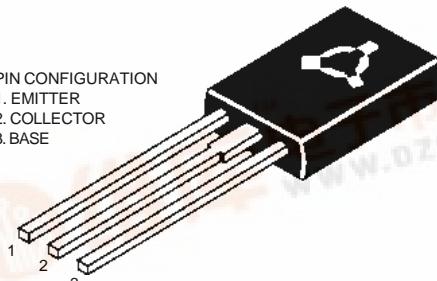
CSB631, CSB631K  
CSD600, CSD600K

**CSB631, 631K PNP PLASTIC POWER TRANSISTORS**  
**CSD600, 600K NPN PLASTIC POWER TRANSISTORS**  
*Low frequency Power Amplifier and Medium Speed Switching Applications*



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.	

PIN CONFIGURATION  
1. Emitter  
2. Collector  
3. Base



ALL DIMENSIONS IN MM

### ABSOLUTE MAXIMUM RATINGS

	631	631K
	600	600K
Collector-base voltage (open emitter)	$V_{CBO}$	max. 100 120 V
Collector-emitter voltage (open base)	$V_{CEO}$	max. 100 120 V
Collector current	$I_C$	max. 1.0 A
Total power dissipation up to $T_C = 25^\circ C$	$P_C$	max. 8.0 W
Junction temperature	$T_j$	max. 150 °C
Collector-emitter saturation voltage $I_C = 0.5 A; I_B = 50 mA$	$V_{CEsat}$	max. 0.4 V
D.C. current gain $I_C = 50 mA; V_{CE} = 5 V$	$h_{FE}$	min. 60 max. 320

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

*Limiting values*

Collector-base voltage (open emitter)	$V_{CBO}$	max. 100 120 V
Collector-emitter voltage (open base)	$V_{CEO}$	max. 100 120 V

**CSB631, CSB631K  
CSD600, CSD600K**

		<b>631</b>	<b>631K</b>
		<b>600</b>	<b>600K</b>
Emitter-base voltage (open collector)	$V_{EBO}$	max.	5.0 V
Collector current	$I_C$	max.	1.0 A
Collector current (peak)	$I_{CP}$	max.	2.0 mA
Total power dissipation up to $T_A = 25^\circ C$	$P_C$	max.	1.0 W
Total power dissipation up to $T_C = 25^\circ C$	$P_C$	max.	8.0 W
Junction temperature	$T_j$	max.	150 $^\circ C$
Storage temperature	$T_{stg}$	-65 to +150	$^\circ C$

**CHARACTERISTICS**

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

		<b>631</b>	<b>631K</b>
		<b>600</b>	<b>600K</b>
Collector cutoff current $I_E = 0; V_{CB} = 50 V$	$I_{CBO}$	max.	1.0 $\mu A$
Emitter cut-off current $I_C = 0; V_{EB} = 4 V$	$I_{EBO}$	max.	1.0 $\mu A$
Breakdown voltages $I_C = 1 mA; I_B = 0$	$V_{CEO}$	min.	100 120 V
$I_C = 10 \mu A; I_E = 0$	$V_{CBO}$	min.	100 120 V
$I_E = 10 \mu A; I_C = 0$	$V_{EBO}$	min.	5.0 V
Saturation voltages $I_C = 500 mA; I_B = 50 mA$	$V_{CEsat}$	max.	0.4 V
	$V_{BEsat}$	max.	1.2 V
D.C. current gain $I_C = 50 mA; V_{CE} = 5 V$	$h_{FE}^*$	min.	60
		max.	320
$I_C = 500 mA; V_{CE} = 5 V$	$h_{FE}$	min.	20
Transition frequency $I_C = 50 mA; V_{CE} = 10 V$	<b>PNP</b> <b>NPN</b>	$f_T$	typ. 110 MHz typ. 130 MHz
Output capacitance $V_{CB} = 10 V; I_E = 0; f = 1 MHz$	<b>PNP</b> <b>NPN</b>	$C_{ob}$ $C_{ob}$	typ. 30 pF typ. 20 pF

\*  **$h_{FE}$  classification: D60 - 120, E = 100 - 200, F 160 - 320**

## 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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