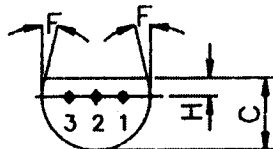
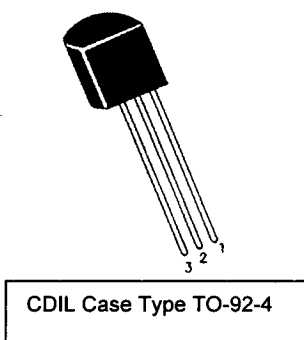
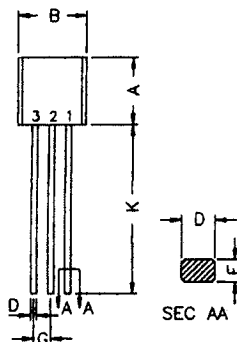


technobots.co.uk 2300-364  
**TO-92 Plastic Package Transistor**

**CDIL -BC184 - NPN Transistor – Style TO-92-4**



**Pin Configuration**  
 1. Emitter  
 2. Base  
 3. Collector



Dim.	Min.	Max.
A	4.32	5.33
B	4.45	5.20
C	3.18	4.19
D	0.41	0.55
E	0.35	0.50
F	5 DEG	
G	1.14	1.40
H	1.14	1.53
K	12.70	-

All Dimensions are in mm

**Maximum Ratings**

Collector - Base Breakdown Voltage, Emitter Open	$V_{CBO}$	Min.	45	V
Collector - Emitter Breakdown Voltage, Base Open	$V_{CEO}$	Min.	30	V
Emitter - Base Breakdown Voltage, Collector Open	$V_{EBO}$	Min.	6	V
Allowable Power Dissipation @ $T_c = 25^\circ\text{C}$	$P_D$		0.35	W
Collector Current	$I_C$		0.1	A

**Electrical Characteristics ( $T_a=25^\circ\text{C}$ , Unless Otherwise Specified)**

Collector Cut Off Current, Emitter Open @ Collector Base Voltage	$I_{CBO}$	Max.	0.015	$\mu\text{A}$
	$V_{CB}$		30	V
Collector Cut Off Current, with Emitter & Base Shorted @ Collector Emitter Voltage	$I_{CES}$	Max.	-	$\mu\text{A}$
	$V_{CE}$		-	V
Small Signal, Current Gain, Common Emitter  @ Collector Current & Collector - Emitter Voltage	$h_{FE}$	Min.	250	
		Max.	900	
	$I_C$		2	mA
	$V_{CE}$		5	V
Collector - Emitter Saturation Voltage  & Base - Emitter Saturation Voltage @ Collector Current	$V_{CE(SAT)}$	Max.	0.25	V
		Min.	-	V
	$V_{BE(SAT)}$	Max.	-	V
	$I_C$		10	mA
Output Capacitance, Common Base	$C_{ob}$	Max.	5	pF
Transition Frequency (common emitter, gain bandwidth product) @ Collector Current	$f_t$	Min.	150	MHz
		Typ.	-	MHz
	$I_C$		10	mA
Turn-off Time ( $t_s + t_f$ )	$t_{(off)}$	Max.	-	ns
Common Source Noise Figure @ Frequency	NF	Max.	4	dB
			0.001	MHz