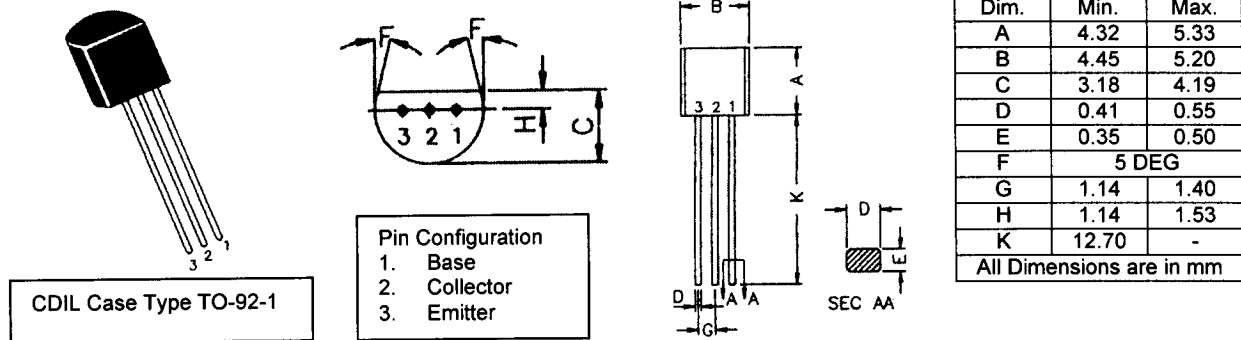


technobots.co.uk 2300-366
TO-92 Plastic Package Transistor

CDIL – BC184L NPN Transistor – Style TO-92-1



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	I_{CBO}	Max.	0.015	μA
@ Collector Base Voltage	V_{CB}		30	V
Collector Cut Off Current, with Emitter & Base Shorted	I_{CES}	Max.	-	μA
@ Collector Emitter Voltage	V_{CE}		-	V
Small Signal, Current Gain, Common Emitter	h_{FE}	Min.	250	
		Max.	800	
@ Collector Current	I_C		2	mA
& Collector - Emitter Voltage	V_{CE}		5	V
Collector - Emitter Saturation Voltage	$V_{CE(SAT)}$	Max.	0.6	V
		Min.	-	V
& Base - Emitter Saturation Voltage	$V_{BE(SAT)}$	Max.	1.2	V
@ Collector Current	I_C		100	mA
Output Capacitance, Common Base	C_{ob}	Max.	5.0	pF
Transition Frequency (common emitter, gain bandwidth product)	f_t	Min.	150	MHz
		Typ.	-	MHz
@ Collector Current	I_C		10	mA
Turn-off Time ($t_s + t_f$)	$t_{(off)}$	Max.	-	ns
Common Source Noise Figure	NF	Max.	4.0	dB
@ Frequency			0.001	MHz