

## **BC182L**

## **NPN General Purpose Amplifier**

- This device is designed for general purpose amplifier application at collector currents to 100mA.
- Sourced from process 10.



## Absolute Maximum Ratings $T_C=25^{\circ}C$ unless otherwise noted

Symbol	Parameter		Value	Units
V <sub>CEO</sub>	Collector-Emitter Voltage	14	50	V
V <sub>CBO</sub>	Collector-Base Voltage	4.16	60	V
V <sub>EBO</sub>	Emitter-Base Voltage	34	6	V
I <sub>C</sub>	Collector Current - Continuous	· S	100	mA
T <sub>J,</sub> T <sub>STG</sub>	Storage Junction Temperature Range	W.	- 55 ~ 150	°C

## Electrical Characteristics $T_C=25^{\circ}C$ unless otherwise noted

50 60	Тур.	Max.	Units	
60		<del></del>		
60				
		1	V	
_			V	
6			V	
		15	nA	
		15	nA	
On Characteristics				
40				
120		500		
80				
		0.25	V	
		0.6		
		1.2	V	
0.55		0.7	V	
			,	
z 150			MHz	
		5	pF	
240		500		
		10	dB	
	0.55 z 150	0.55 z 150	0.25 0.6 1.2 0.55 0.7 z 150 5 240 500	

## Thermal Characteristics $T_A=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Max.	Units
P <sub>D</sub>	Total Device Dissipation @T <sub>A</sub> =25°C	350	mW
	Derate above 25°C	2.8	mW/°C
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	357	mW/°C
$R_{\theta JC}$	Thermal Resistance, Junction to Case	125	°C/W

# **Package Dimensions** TO-92 $4.58^{\,+0.25}_{\,-0.15}$ 4.58 ±0.20 14.47 ±0.40 0.46 ±0.10 1.27TYP $0.38^{\,+0.10}_{\,-0.05}$ 1.27TYP [1.27 ±0.20] $\overline{[1.27 \pm 0.20]}$ 3.60 ±0.20 (0.25)1.02 ±0.10 0.38 <sup>+0.10</sup> 0.38 −0.05 (R2.29)

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