BC546,A,B BC547,A,B,C BC548,A,B,C

SILICON NPN TRANSISTORS



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR BC546, BC547, BC548 series devices are silicon NPN small signal transistors, manufactured by the epitaxial planar process, designed for general purpose amplifier applications.

MARKING: FULL PART NUMBER



MAXIMUM RATINGS: (T _A =25°C) Collector-Base Voltage Collector-Emitter Voltage Collector-Emitter Voltage Emitter-Base Voltage Continuous Collector Current Peak Collector Current Peak Base Current Peak Base Current Peak Emitter Current Power Dissipation Operating and Storage Junction Temperature Thermal Resistance Thermal Resistance		SYMBOL VCBO VCES VCEO VEBO IC ICM IBM IEM PD TJ, Tstg ΘJA ΘJC	80 80 65 6.0	BC547 50 50 45 6.0 100 200 200 200 200 500 -65 to +150 250 150	BC548 30 30 30 5.0	UNITS V V V MA MA MA MA MO *C *C/W *C/W
SYMBOL ICBO ICBO VCE(SAT) VCE(SAT) VBE(SAT) VBE(SAT) VBE(ON) VBE(ON) hFE hFE	L CHARACTERISTICS: $(T_A=25^{\circ}\text{C u})$ TEST CONDITIONS $V_{\text{CB}}=30\text{V}$, V_{CB	547,A, BC548,A) 47B, BC548B)	MIN 580	700 900 90 150 270	MAX 15 5.0 250 600 700 770	UNITS nA μA mV mV mV mV mV
hFE hFE hFE hFE hFE hfe fT C _{ob} Cib	V _{CE} =5.0V, I _C =10µA (BC546) V _{CE} =5.0V, I _C =2.0mA (BC546A, BC V _{CE} =5.0V, I _C =2.0mA (BC546B, BC V _{CE} =5.0V, I _C =2.0mA (BC547, BC5 V _{CE} =5.0V, I _C =2.0mA (BC547C, BC6 V _{CE} =5.0V, I _C =2.0mA, f=1.0kHz V _{CE} =5.0V, I _C =10mA, f=35MHz V _{CE} =5.0V, I _C =10mA, f=35MHz V _{CE} =5.0V, I _C =0, f=1.0MHz V _{CE} =5.0V, I _C =0, f=1.0MHz V _{CE} =5.0V, I _C =0.2mA, R _G =2.0kΩ, B=200Hz, f=1.0kHz	547A, BC548A) 547B, BC548B) 48)		300 2.5 9.0 2.0	450 220 450 800 800 900	MHz pF pF dB

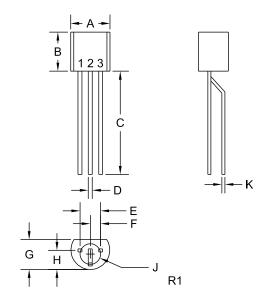
R1 (13-December 2013)

BC546,A,B BC547,A,B,C BC548,A,B,C

SILICON **NPN TRANSISTORS**



TO-92-18R CASE - MECHANICAL OUTLINE



DIMENSIONS								
	INCHES		MILLIMETERS					
SYMBOL	MIN	MAX	MIN	MAX				
A (DIA)	0.175	0.205	4.45	5.21				
В	0.170	0.210	4.32	5.33				
С	0.500	-	12.70	-				
D	0.016	0.022	0.41	0.56				
Е	0.100		2.54					
F	0.050		1.27					
G	0.125	0.165	3.18	4.19				
Н	0.080	0.105	2.03	2.67				
J (DIA)	0.100		2.54					
K	0.015		0.38					

TO-92-18R (REV: R1)

LEAD CODE:

- 1) Collector 2) Base 3) Emitter

MARKING:

FULL PART NUMBER