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

SILICON NPN TRANSISTORS



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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



Collector-Base Collector-Em Emitter-Base Continuous (Peak Collect Peak Base (Peak Emitter Power Dissign	nitter Voltage nitter Voltage Voltage Voltage Collector Current or Current Current Current otation ad Storage Junction Temperature	SYMBOL VCBO VCES VCEO VEBO IC ICM IBM IEM PD TJ, Tstg ØJA ØJC	BC546 80 80 65 6.0	BC547 50 50 45 6.0 100 200 200 200 500 -65 to +150 250 150	BC548 30 30 30 5.0	UNITS V V V MA MA MA MA MC CC CVW CVW
SYMBOL ICBO ICBO VCE(SAT) VCE(SAT) VBE(SAT) VBE(SAT) VBE(ON) VBE(ON) hFE hFE hFE	L CHARACTERISTICS: $(T_A=25^{\circ}\text{C})$ unless otherwise not TEST CONDITIONS $V_{\text{CB}}=30\text{V}$ $V_{\text{CB}}=30\text{V}$ $V_{\text{CB}}=30\text{V}$ $V_{\text{CB}}=30\text{V}$ $V_{\text{CB}}=30\text{V}$ $V_{\text{CB}}=30\text{V}$ $V_{\text{CB}}=30\text{V}$ $V_{\text{CB}}=10\text{mA}$ $V_{\text{CB}}=10mA$		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 fT C _{ob} Cib	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, BC V_{CE} =5.0V, I_{C} =2.0mA, I_{C} =1.0kHz I_{CE} =5.0V, I_{C} =10mA, I_{C} =35MHz I_{CE} =10V, I_{C} =0.7 =1.0MHz I_{CE} =0.5V, I_{C} =0.7 =1.0MHz I_{CE} =5.0V, I_{C} =0.2mA, I_{C} =2.0kΩ, I_{C} =5.0V, I_{C} =0.2mA, I_{C} =2.0kΩ, I_{C} =2.0kHz	547B, BC548B) 48)	110 200 110 420 125	300 2.5 9.0 2.0	220 450 800 800 900	MHz pF pF dB

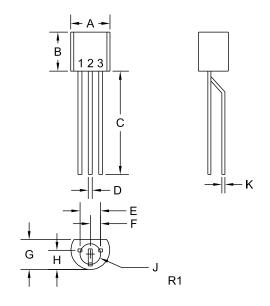
R1 (13-December 2013)

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



OUTSTANDING SUPPORT AND SUPERIOR SERVICES

PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- · Inventory bonding
- · Consolidated shipping options

- Custom bar coding for shipments
- · Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- · Online technical data and parametric search
- SPICE models
- · Custom electrical curves
- · Environmental regulation compliance
- · Customer specific screening
- · Up-screening capabilities

- Special wafer diffusions
- · PbSn plating options
- · Package details
- · Application notes
- · Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

- 1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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