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 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, BC 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

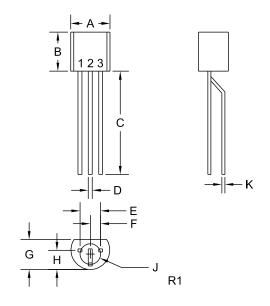
R1 (13-December 2013)

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



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

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp. 145 Adams Avenue Hauppauge, NY 11788 USA Main Tel: (631) 435-1110 Main Fax: (631) 435-1824

Support Team Fax: (631) 435-3388

www.centralsemi.com

Worldwide Field Representatives: www.centralsemi.com/wwreps

Worldwide Distributors:

www.centralsemi.com/wwdistributors

For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centralsemi.com/terms

www.centralsemi.com (001)

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Bipolar Transistors - BJT category:

Click to view products by Central Semiconductor manufacturer:

Other Similar products are found below:

619691C MCH4017-TL-H BC546/116 BC557/116 BSW67A NTE158 NTE187A NTE195A NTE2302 NTE2330 NTE63 C4460
2SA1419T-TD-H 2SA1721-O(TE85L,F) 2SA2126-E 2SB1204S-TL-E 2SD2150T100R SP000011176 FMMTA92QTA 2N2369ADCSM
2N5769 2SC2412KT146S 2SC5490A-TL-H 2SD1816S-TL-E 2SD1816T-TL-E CMXT2207 TR CPH6501-TL-E MCH4021-TL-E
US6T6TR NJL0281DG 732314D CMXT3906 TR CPH3121-TL-E CPH6021-TL-H 873787E IMZ2AT108 UMX21NTR MCH6102-TL-E
NJL0302DG 2N3583 2SA1434-TB-E 2SC3143-4-TB-E 2SD1621S-TD-E NTE103 30A02MH-TL-E NSV40301MZ4T1G NTE101 NTE13
NTE15 NTE16001