
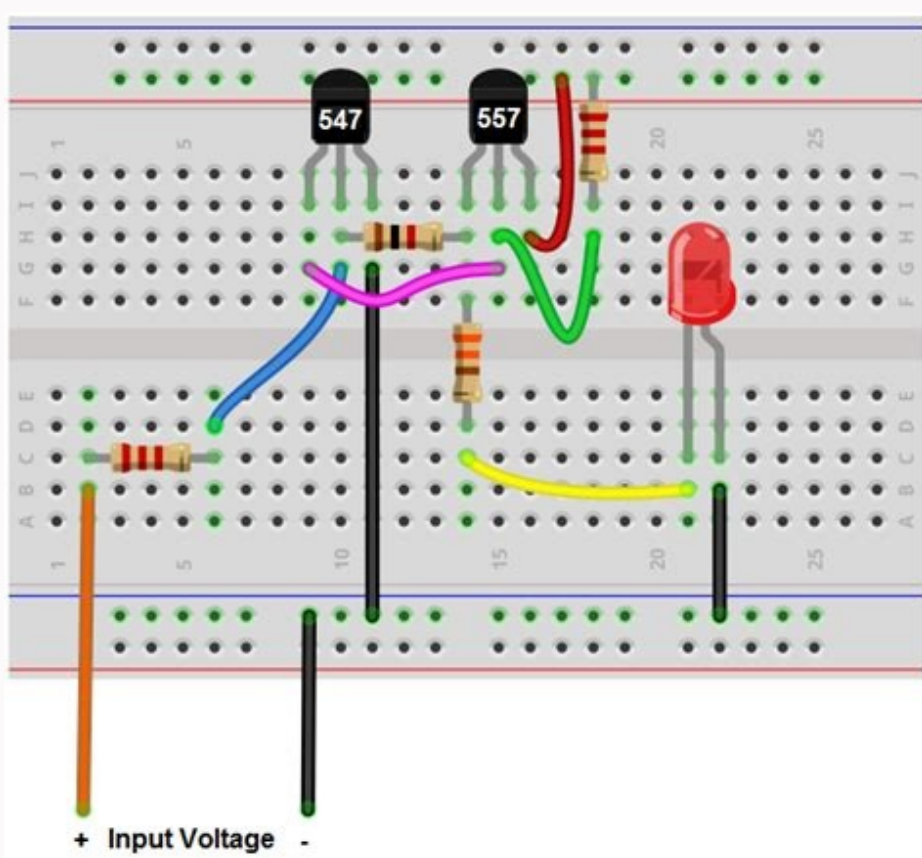


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KEC SEMICONDUCTOR TECHNICAL DATA

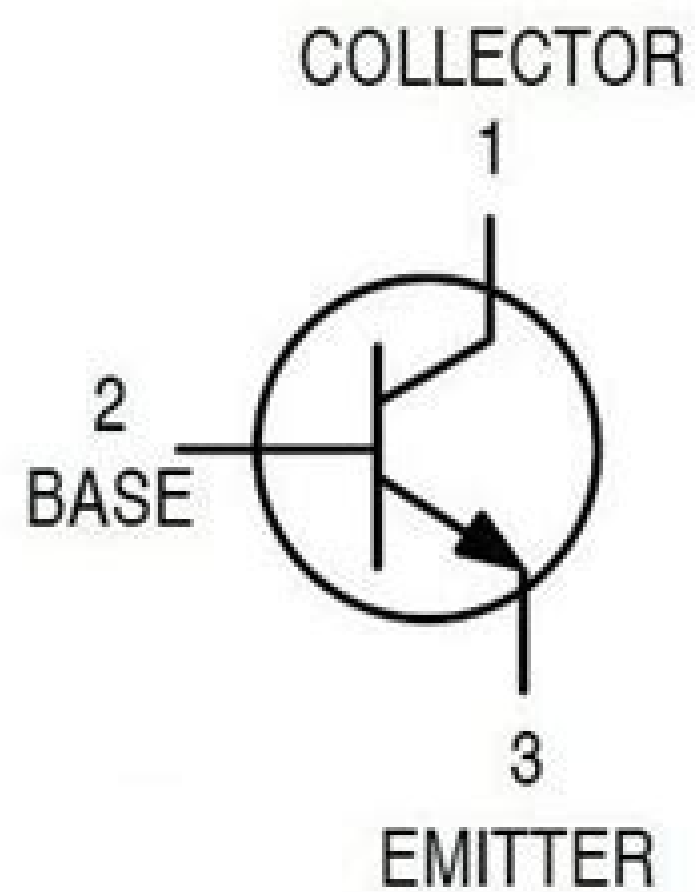
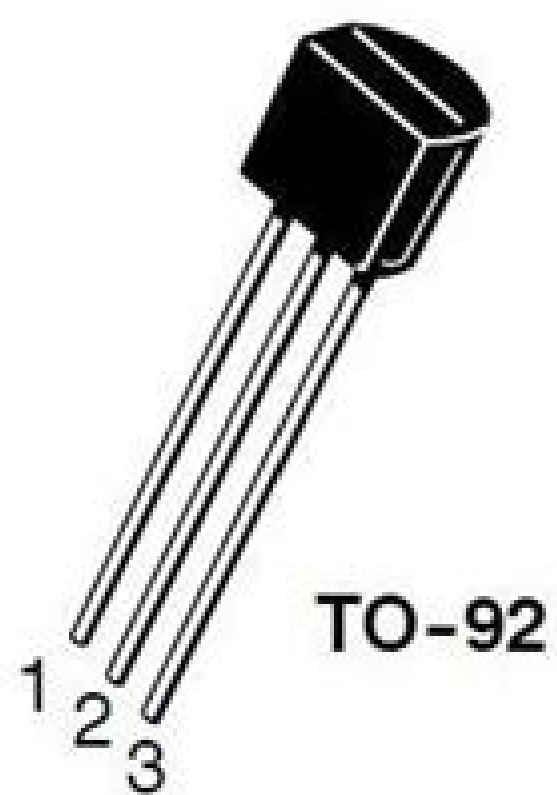
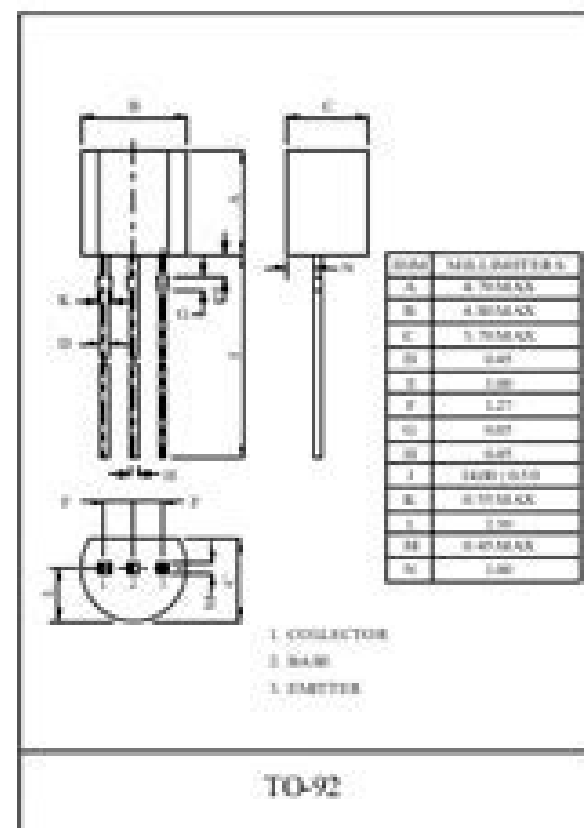
BC546/7/8
EPI-TAXIAL PLANAR NPN TRANSISTOR

GENERAL PURPOSE APPLICATION.
SWITCHING APPLICATION.

FEATURES
- High Voltage : BC546 $V_{CEO} = 65V$.
- For Complementary With PNP Type BC556/557/558.

MAXIMUM RATING ($T_a = 25^\circ C$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	BC546	80	V
	BC547	50	
	BC548	30	
Collector-Emitter Voltage	BC546	65	V
	BC547	45	
	BC548	30	
Emitter-Base Voltage	BC546	6	V
	BC547	6	
	BC548	5	
Collector Current	BC546	100	mA
	BC547	100	
	BC548	100	
Emitter Current	BC546	-100	mA
	BC547	-100	
	BC548	-100	
Collector Power Dissipation	P_C	625	mW
Junction Temperature	T_J	150	$^\circ C$
Storage Temperature Range	T_{stg}	-55 ~ 150	$^\circ C$



NPN Silicon Epitaxial Power Transistor
FEATURES:

- Low frequency power amplifier
- Compliant to 26034


MAXIMUM RATINGS (T_v=25°C unless otherwise noted)

Symbol	Parameter	Value	Units
V _{CE}	Collector-Base Voltage	80	V
V _{CE}	Collector-Emitter Voltage	80	V
V _{BE}	Emitter-Base Voltage	± 1	V
I _C	Collector Current - Continuous	3	A
P _C	Collector Power Dissipation	1.5	W
T _v	Junction Temperature	180	°C
T _{stg}	Storage Temperature	80-100	°C

ELECTRICAL CHARACTERISTICS (T_v=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	unit
Collector-base breakdown voltage	V _{CB0}	I _C =100μA, I _B =0	80			V
Collector-emitter breakdown voltage	V _{CE0}	I _C =100μA, I _B =0	80			V
Emitter-base breakdown voltage	V _{EB0}	I _C =100μA, I _B =0	± 1			V
Collector cutoff current	I _{CO}	V _{CE} =5V, I _B =0			100	μA
Emitter cutoff current	I _{EO}	V _{BE} =5V, I _C =0			100	μA
DC current gain	h _{FE}	V _{CE} =5V, I _C =100μA	80		300	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =1A, I _B =100mA		1		V
Base-emitter voltage	V _{BE}	I _C =5mA, V _{CE} =1V		1		V
Transition Frequency	f _T	V _{CE} =5V, I _C =100μA		1		MHz
Collector output capacitance	C _{ob}	V _{CE} =10V, I _C =100μA		10		pF
Type on file	N ₁	I _C =1A, I _B =100mA, V _{CE} =5V		8.5		μs
Storage time	t _s	V _{CE} =10V, I _C =100μA		1.5		μs
Fall time	t _f	V _{CE} =10V, I _C =100μA		0.5		μs

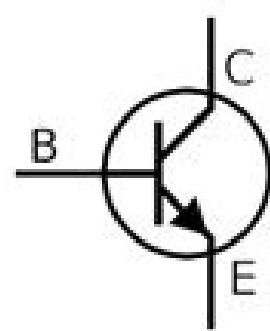
CLASSIFICATION OF h_{FE}

Rank	Q	T	DR
Range	80-120	100-200	200-300

BC548 Transistor Pinout



- 1 = Collector**
- 2 = Base**
- 3 = Emitter**



Download datasheets and manufacturer documentation for ON Semiconductor BC547. Since the power between the emitter and collector can be higher than the base, transistors are often used as amplifiers. BC547 transistor has capacity to handle Collector current (I_c) load not more than 100mA. 4. Differences between BC547, BC548, and BC549? This stage is called Saturation Region and the typical voltage allowed across the Collector-Emitter (VCE) or Base-Emitter (VBE) could be 200 and 900 mV respectively. The BC547 is a NPN transistor meaning when power is applied to the base (control pin) it will flow from the collector to the emitter. 6. Can I use BC547 instead of 2N2222? The circuit is activated once the power supply is given to the circuit. The BC548 and BC549 are very similar to the BC547 in every respect apart from a difference in operating breakdown voltages. Typically NPN transistors are used to "switch ground" on a device, meaning, they are placed after the load in a circuit. Pin configuration of BC547 is also different as compared with 2N2222. Therefore, if you need to control the speed of a motor or actuator in some of your projects, you can simply use this transistor to achieve it. A transistor is basically an electrically controlled switch. BC547 Functional Alternatives BC547 Applications in Electrical Circuits Frequently Asked Questions The BC547 is a general purpose BJT NPN transistor mostly used in electronics hobbyists and educational electronics projects. The company offers a comprehensive portfolio of energy efficient power and signal management, logic, discrete and custom solutions to help design engineers solve their unique design challenges in automotive, communications, computing, consumer, industrial, LED lighting, medical, military/aerospace and power supply applications. Always confirm the collector emitter and base pins before placing in circuit. ON Semiconductor operates a responsive, reliable, world-class supply chain and quality program, and a network of manufacturing facilities, sales offices and design centers in key markets throughout North America, Europe, and the Asia Pacific regions. The BC547, BC548, and BC549 are a group of general-purpose transistors with similar electrical characteristics. And then, the relay gets off mode. 3. How to safely long run BC547 in a circuit? To bias a transistor we have to supply current to base pin, this current (I_B) should be limited to 5mA. BC547 is an NPN transistor hence the collector and emitter will be left open (Reverse biased) when the base pin is held at ground and will be closed (Forward biased) when a signal is provided to base pin. When the S2 switch is ON, the Q4 transistor will start conducting & relay 'L3' can be latched. For basic and simple low voltage audio applications, they are almost equivalents. Alarm circuits LED flasher circuit Water level indicator Sensor-based circuits Audio Preamp circuits RF Circuits Touch-sensitive switch circuit Heat sensor circuit Moisture sensitive alarm Latch circuit Street light circuit Relay driver based on one channel Indication of volume level Radio Frequency Circuits Touch Switch Circuit Using BC547 The ON/OFF touch switch using transistor BC547 is shown above. Do not use or store it in temperature above +150 centigrade and below -65 centigrade. For long run in a circuit it is important to not increase load more than 100mA on it, and do not exceed the voltage across this transistor to 45V DC. BC547 Package Outline ON Semiconductor (Nasdaq: ON) is driving energy efficient innovations, empowering customers to reduce global energy use. BC547 has a gain value of 110 to 800, this value determines the amplification capacity of the transistor. The typical saturation voltage is only 90 millivolts which is also a good sign to use it as a switch. Besides that it can also be used in commercial circuits. Symbol Footprint 3D Model Package Type: TO-92 Transistor Type: NPN Max Collector Current(I_C): 100mA Max Collector-Emitter Voltage (VCE): 45V Max Collector-Base Voltage (VCB): 50V Max Emitter-Base Voltage (VEBO): 6V Max Collector Dissipation (P_c): 500 milliwatt Max Transition Frequency (f_T): 300 MHz Minimum & Maximum DC Current Gain (h_{FE}): 110 - 800 Max Storage & Operating temperature Should Be: -65 to +150 Centigrade ON Semiconductor BC547 technical specifications, attributes, parameters and parts with similar specifications to ON Semiconductor BC547. There is an input, output, and a control line referred to as the emitter, collector, and base. BC547 is usually used for current amplifier, quick switching and pulse-width modulation (PWM). When the control line (base) is triggered it will connect the emitter and the collector just like switching a switch. Always use a suitable base resistor to provide required current for saturation. Thus, the base terminal of the Q3 transistor is high throughout the R7 resistor to maintain in cut-off condition. Attribute Value Mount Through Hole Mounting Type Through Hole Package / Case TO-226-3, TO-92-3 (TO-226AA) Number of Pins 3 Supplier Device Package TO-92-3 Weight 200mg Operating Temperature 150°C TJ Packaging Bulk Published 2012 Part Status Obsolete Moisture Sensitivity Level (MSL) 1 (Unlimited) Max Operating Temperature 150°C Min Operating Temperature -65°C Voltage - Rated DC 45V Max Power Dissipation 500mW Current Rating 100mA Frequency 300MHz Base Part Number BC547 Number of Elements 1 Polarity NPN Element Configuration Single Attribute Value Power Dissipation 500mW Power - Max 500mW Gain Bandwidth Product 300MHz Transistor Type NPN Collector Emitter Voltage (VCE0) 45V Max Collector Current 100mA DC Current Gain (hFE) (Min) @ I_C, V_{CE} 110 @ 2mA 5V Current - Collector Cutoff (Max) 15mA ICBO V_{CE} Saturation (Max) @ I_B, I_C 600mV @ 5mA, 100mA Collector Emitter Breakdown Voltage 45V Voltage - Collector Emitter Breakdown (Max) 45V Current - Collector (I_c) (Max) 100mA Collector Emitter Saturation Voltage 250mV Frequency - Transition 300MHz Collector Base Voltage (VCBO) 50V Emitter Base Voltage (VEBO) 6V hFE Min 110 REACH SVHC No SVHC RoHS Status RoHS Compliant Lead Free Lead Free The BC547 is a widely used transistor that can be used in any general purpose applications or as a substitute and replacement to many transistors. The Q4 transistor is ON because of the voltage at the collector terminal of the transistor Q3 using R8 resistor. When the switch S1 is pressed for a moment the base terminal of transistor Q3 will be pulled up then the L2 will turn off because of the Q4 transistor's pull-down base throughout the R8 resistor so the relay L3 will be turned off. When base current is removed the transistor becomes fully off, this stage is called as the Cut-off Region and the Base Emitter voltage could be around 660 mV. Darlington pair Quick switching PWM (Pulse Width Modulation) Driver Modules like Relay Driver, LED driver etc. 2. What is a transistor and what's the function of BC547? Besides these uses it can also be used in commercial circuits. Pin configuration of both transistor is reverse (middle pin of both are Base). When this transistor is fully biased then it can allow a maximum of 100mA to flow across the collector and emitter. 5. What is the use of BC547 transistor? The BC547 comes in TO-92 packaging and the maximum output current it can handle is 100mA. The maximum amount of current that could flow through the Collector pin is 100mA, hence we cannot connect loads that consume more than 100mA using this transistor. The BC547 comes in TO-92 packaging and the maximum output current it can handle is 100mA. The BC547 can be used in variety of electronic circuits, for example, switch small load on very low input voltage and current. And it can also be used in amplification applications like amplification of small audio and other signals. Audio Amplifier Stages Switching Loads under 100mA Amplification of current Amplifiers like Audio, signal, etc. If accidentally placed wrong in a circuit than check its performance again because placing wrong pins sometimes burns the internal circuitry of the transistor or make it weak. The BC547 is having very good DC current gain and low noise capabilities due to which it is ideal to use in signal amplification stages. The max transition frequency of the transistor is 300MHz so it will also perform well in RF circuits under 300MHz frequency. The base terminal of the Q3 transistor will be pulled downward, and then L2 LED will blink to indicate power is ON. Yes, you can, for switching just look for I_c(collector current) and V_{ce0}(collector-emitter voltage) in the datasheet. Download datasheets and manufacturer documentation for BC546-50 Datasheet ON-Semiconductor-company-79.pdf The BC547 is a general purpose BJT NPN transistor mostly used in electronics hobbyists and educational electronics projects.

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