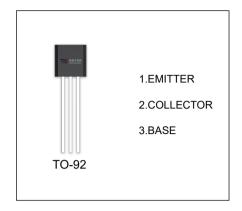


BC546 / BC547 / BC548 TRANSISTOR (NPN)

FEATURES

- High Voltage
- Complement to BC556,BC557,BC558



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
BC546	TO-92	Bulk	1000pcs/Bag
BC546-TA	TO-92	Tape	2000pcs/Box
BC547	TO-92	Bulk	1000pcs/Bag
BC547-TA	TO-92	Tape	2000pcs/Box
BC548	TO-92	Bulk	1000pcs/Bag
BC548-TA	TO-92	Tape	2000pcs/Box

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

Symbol	Parameter		Value	Unit	
		BC546	80		
V _{CBO}	Collector-Base Voltage	BC547	50	V	
		BC548			
		BC546	65		
V _{CEO}	Collector-EmitterVoltage	BC547	45	V	
		BC548	30		
		BC546	6	V	
V _{EBO}	Emitter-Base Voltage	BC547	6	V	
		BC548	5	V	
Ic	Collector Current-Continuous		0.1	Α	
Pc	Collector Power Dissipation		625	mW	
R _{θJA}	Thermal Resistance from Junction to Ambient		200	°C /W	
T _J ,T _{stg}	Operation Junction and Storage Temperature Range		-55~+150	℃	



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

Parameter		Symbol	Test conditions	Min	Тур	Max	Unit
	BC546	V _{(BR)CBO}	I _C = 0.1mA,I _E =0	80			V
Collector-base breakdown voltage	BC547			50			
	BC548			30			
	BC546	V _{(BR)CEO}	I _C =1mA,I _B =0	65			V
Collector-emitter breakdown voltage	BC547			45			
	BC548			30			
	BC546	V _{(BR)EBO}	I _E =10μA,I _C =0	6			V
Emitter-base breakdown voltage	BC547			6			
	BC548			5			
	BC546	I _{CBO}	V _{CB} =70V,I _E =0			0.1	μA
Collector cut-off current	BC547		V _{CB} =50V,I _E =0			0.1	μA
	BC548		V _{CB} =30V,I _E =0			0.1	μA
	BC546	I _{CEO}	V _{CE} =60V,I _B =0			0.1	μA
Collector cut-off current	BC547		V _{CE} =45V,I _B =0			0.1	μA
	BC548		V _{CE} =30V,I _B =0			0.1	μA
Emitter cut-off current		I _{EBO}	V _{EB} =5V,I _C =0			0.1	μA
DC current gain		h _{FE} *	V _{CE} =5V, I _C =2mA	110		800	
Collector-emitter saturation voltage		V _{CE(sat)}	I _C =100mA,I _B =5mA			0.3	V
Base-emitter saturation voltage		V _{BE(sat)}	I _C =100mA,I _B =5mA			1.1	V
Base-emitter voltage		V _{BE}	V _{CE} =5V, I _C =2mA	0.58		0.7	V
			V _{CE} =5V, I _C =10mA			0.75	V
Collector output capacitance		C _{ob}	V _{CB} =10V,I _E =0, f=1MHz			4.5	pF
Transition frequency		f _T	VcE=5V,Ic=10mA, f=100MHz	150			МН

CLASSIFICATION of h_{FE}

RANK	A	В	С
RANGE	110-220	200-450	420-800