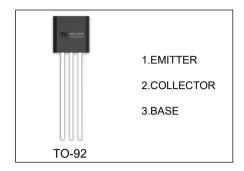


BC307/308/309 TRANSISTOR (PNP)

FEATURES

Amplifier dissipation NPN Silicon



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
BC307	TO-92	Bulk	1000pcs/Bag
BC307-TA	TO-92	Tape	2000pcs/Box
BC308	TO-92	Bulk	1000pcs/Bag
BC308-TA	TO-92	Tape	2000pcs/Box
BC309	TO-92	Bulk	1000pcs/Bag
BC309-TA	TO-92	Tape	2000pcs/Box

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

Symbol	Parameter		Value	Unit
V	Collector-EmitterVoltage	BC307	-45	V
V _{CEO}		BC308/309	-25	V
V	Emitter-Base Voltage	BC307	-6	V
V _{EBO}		BC308/309	-5	V
Ic	Collector Current -Continuous		-0.1	Α
Pc	Collector Power Dissipation		500	mW
R _{0 JA}	Thermal Resistance, Junction to Ambient		357	°C /W
R ₀ JC	Thermal Resistance, Junction to Case		125	°C /W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range		-55-150	℃



Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-10μA, I _E =0 BC307 BC308/309	-50 -30			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-2mA, I _B =0 BC307 BC308/309	-45 -25			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-10μA, I _C =0	-5			V
Collector cut-off current	I _{CBO}	V_{CB} =-45V,I _E =0 BC307 V_{CB} =-25V,I _E =0 BC308/309			-15	nA
Emitter cut-off current	I _{EBO}	V _{EB} =-5V, I _C =0			-15	nA
DC current gain	h _{FE}	V _{CE} =-5V, I _C =-2mA	120		800	
		I _C =-10mA, I _B =-0.5mA			-0.3	V
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-100mA, I _B =-5mA			-0.6	V
	V _{BE(sat)}	I _C =-10mA, I _B =-0.5mA			-0.75	V
Base-emitter saturation voltage		I _C =-100mA, I _B =-5mA			-1	V
Base-emitter voltage	V _{BE}	V _{CE} =-5V, I _C =-2mA	-0.55		-0.75	V
Transition frequency	f⊤	V _{CE} =-5V, I _C =-10mA, f=50MHz		130		MHz
Collector output capacitance	C _{ob}	V _{CB} =-10V, I _E =0, f=1MHz			6	pF
Noise figure	NF	V_{CE} =-5V, I_{C} =-0.2mA , f=1KHz, R_{G} =2K Ω BC307/BC308 BC309 V_{CE} =-5V, I_{C} =-0.2mA , f=30-15KHz, R_{G} =2K Ω BC309			10 4	dB

CLASSIFICATION OF hFE

Rank	Α	В	С
Range	120-220	180-460	380-800