



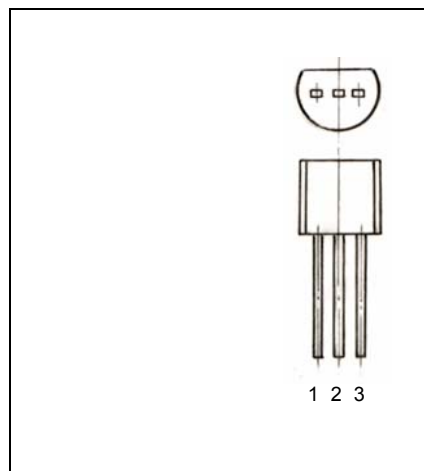
BC556/BC557/BC558 TRANSISTOR (PNP)

FEATURES

- High Voltage
- Complement to BC546/BC547/BC548

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

Symbol	Parameter	Value	Units	
V _{CBO}	Collector-Base Voltage	BC556 -80 BC557 -50 BC558 -30	V	
	V _{CEO}	Collector-Emitter Voltage	-65 -45 -30	V
		V _{EBO}	Emitter-Base Voltage	-5
I _C		Collector Current -Continuous	-100	mA
P _C	Collector Power Dissipation	625	mW	
T _J	Junction Temperature	150	°C	
T _{stg}	Storage Temperature	-55-150	°C	



ELECTRICAL CHARACTERISTICS (T_{amb}=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT	
Collector-base breakdown voltage	V _{CBO}	I _C = -100μA, I _E =0	BC556	-80			V
			BC557	-50			
			BC558	-30			
Collector-emitter breakdown voltage	V _{CEO}	I _C = -2mA, I _B =0	BC556	-65			V
			BC557	-45			
			BC558	-30			
Emitter-base breakdown voltage	V _{EBO}	I _E = -100μA, I _C =0	-5			V	
Collector cut-off current	I _{CBO}	V _{CB} =- 70 V, I _E =0 V _{CB} = -45 V, I _E =0 V _{CB} = -25V, I _E =0	BC556			-0.1	μA
			BC557				
			BC558				
Collector cut-off current	I _{CEO}	V _{CE} = -60 V, I _B =0 V _{CE} = -40 V, I _B =0 V _{CE} = -25 V, I _B =0	BC556			-0.1	μA
			BC557				
			BC558				
Emitter cut-off current	I _{EBO}	V _{EB} = -5 V, I _C =0			-0.1	μA	
DC current gain	h _{FE}	V _{CE} =-5V, I _C = -2mA	BC556	120		800	
			BC557	120		800	
			BC558	120		800	
			BC557A	120		220	
			BC556B/BC557B/BC558B	180		460	
			BC557C	420		800	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-100mA, I _B = -5mA			-0.65	V	
Base-emitter saturation voltage	V _{BE(sat)}	I _C = -100mA, I _B =-5mA			-1	V	
Transition frequency	f _T	V _{CE} = -5V, I _C = -10mA f = 100MHz	150			MHz	