BC556 / BC557 / BC558

TO-92 Plastic-Encapsulate Transistors

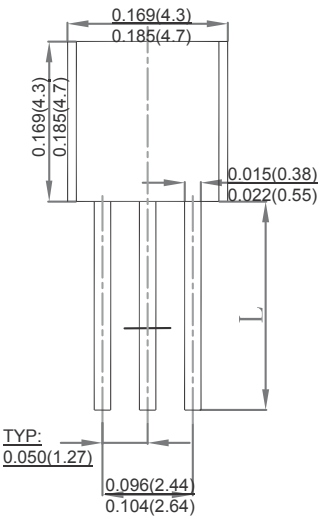
FEATURES

- High Voltage
- Complement to BC546,BC547,BC548
- TRANSISTOR (PNP)

MECHANICAL DATA

- Case style:TO-92molded plastic
- Mounting position:any

TO-92



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Symbol	Parameter		Value	Unit
V_{CBO}	Collector-Base Voltage	BC556	-80	V
		BC557	-50	
		BC558	-30	
V_{CEO}	Collector-Emitter Voltage	BC556	-65	V
		BC557	-45	
		BC558	-30	
V_{EBO}	Emitter-Base Voltage		-5	V
I_C	Collector Current-Continuous		-0.1	A
P_C	Collector Power Dissipation		625	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient		200	℃/W
T_j	Junction Temperature		150	℃
T_{stg}	Storage Temperature		-55~+150	℃

Parameter		Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	BC556	$V_{(BR)CBO}$	I_C= -0.1mA,I_E=0	-80			V
	BC557			-50			
	BC558			-30			
Collector-emitter breakdown voltage	BC556	$V_{(BR)CEO}$	I_C=-2mA,I_B=0	-65			V
	BC557			-45			
	BC558			-30			
Emitter-base breakdown voltage		$V_{(BR)EBO}$	I_E=-100μA,I_C=0	-5			V
Collector cut-off current	BC556	I_{CBO}	V_{CB}=-70V,I_E=0			-0.1	μA
	BC557		V_{CB}=-45V,I_E=0			-0.1	μA
	BC558		V_{CB}=-25V,I_E=0			-0.1	μA
Collector cut-off current	BC556	I_{CEO}	V_{CE}=-60V,I_B=0			-0.1	μA
	BC557		V_{CE}=-40V,I_B=0			-0.1	μA
	BC558		V_{CE}=-25V,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	120		800	
Collector-emitter saturation voltage		$V_{CE(sat)}$	I_C=-10mA,I_B=-0.5mA			-0.3	V
			I_C=-100mA,I_B=-5mA			-0.65	V
Base-emitter saturation voltage		$V_{BE(sat)}$	I_C=-10mA,I_B=-0.5mA			-0.8	V
			I_C=-100mA,I_B=-5mA			-1	V
Base-emitter voltage		V_{BE}	V_{CE}=-5V, I_C=-2mA	-0.55		-0.7	V
			V_{CE}=-5V, I_C=-10mA			-0.82	V
Collector output capacitance		C_{ob}	V_{CB}=-10V,I_E=0, f=1MHz			6	pF
Transition frequency	BC556	f_T	V_{CE}=-5V,I_C=-10mA, f=100MHz		150		MHz
	BC557				150		MHz
	BC558				150		MHz

CLASSIFICATION of h_{FE}

RANK	A	B	C
RANGE	120-220	180-460	420-800