



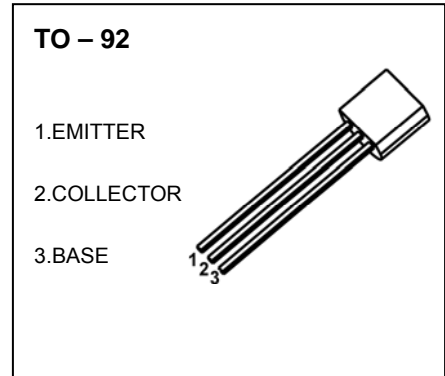
BC368 TRANSISTOR (NPN)

FEATURES

- High Current
- Low Voltage

APPLICATIONS

- General Purpose Switching and Amplification



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

Symbol	Parameter	Value	Unit
V _{CB0}	Collector-Base Voltage	25	V
V _{CEO}	Collector-Emitter Voltage	20	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current -Continuous	1	A
P _C	Collector Power Dissipation	0.625	W
R _{θJA}	Thermal Resistance From Junction To Ambient	200	°C/W
T _j	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55~+150	°C

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

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 0.1mA, I _E =0	25			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =10mA, I _B =0	20			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =0.01mA, I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =25V, I _E =0			10	μA
Emitter cut-off current	I _{EBO}	V _{EB} =5V, I _C =0			10	μA
DC current gain	h _{FE(1)}	V _{CE} =1V, I _C =0.5A	85		375	
	h _{FE(2)}	V _{CE} =10V, I _C =5mA	50			
	h _{FE(3)}	V _{CE} =1V, I _C =1A	60			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =1A, I _B =0.1A			0.5	V
Base-emitter voltage	V _{BE}	I _C =1A, V _{CE} =1V			1	V
Transition frequency	f _T	V _{CE} =5V, I _C =10mA, f=35MHz	65			MHz