

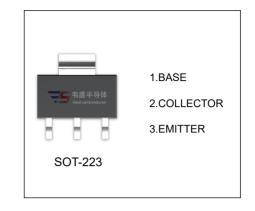
BCP69 TRANSISTOR (PNP)

FEATURES

- High Current and Low Voltage
- NPN Complement:BCP68

APPLICATIONS

- General Purpose Switching and Amplification
- Power Applications Such as Audio Output Stages



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

Symbol	Parameter	Value	Unit	
V _{CBO}	Collector-Base Voltage	-32	V	
V _{CEO}	Collector-Emitter Voltage	-20	V	
V _{EBO}	Emitter-Base Voltage	-5	V	
lc	Collector Current	-1	Α	
Pc	Collector Power Dissipation	1	W	
R _{θJA}	Thermal Resistance From Junction To Ambient	125	°C/W	
$T_{j,}T_{stg}$	Operation Junction and Storage Temperature Range	-55~+150	°C	

ELECTRICAL CHARACTERISTICS (T_a =25 $^{\circ}$ C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-0.1mA,I _E =0	-32			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-1mA,I _B =0	-20			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-0.1mA,I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =-25V,I _E =0			-100	nA
Emitter cut-off current	I _{EBO}	V _{EB} =-5V,I _C =0			-100	nA
	h _{FE(1)}	V _{CE} =-1V, I _C =-0.5A	85		375	
DC current gain	h _{FE(2)}	V _{CE} =-1V, I _C =-1A	60			
Bo carrent gam	h _{FE(3)}	V _{CE} =-10V, I _C =-5mA	50			
	h _{FE(4)}	V _{CE} =-1.8V, I _C =-10mA	140		230	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-1A,I _B =-100mA			-0.5	V
Base-emitter voltage	V _{BE(1)}	V _{CE} =-10V, I _C =-5mA			-0.68	V
Buo omitto voltage	V _{BE(2)}	V _{CE} =-1V, I _C =-1A			-1	V
Transition frequency	f _T	VcE=-5V,Ic=-10mA, f=100MHz	40			MHz
Collector output capacitance	Cob	V _{CB} =-5V, I _E =0, f=1MHz		48		pF

CLASSIFICATION OF hee(1)

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RANK	BCP69-16	BCP69-25				
RANGE	100 - 250	160 - 375				