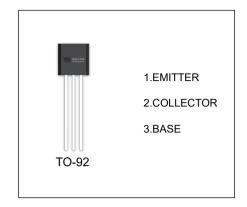


2SB1068 TRANSISTOR (PNP)

FEATURES

- Low Collector Saturation Voltage
- High DC Current Gain
- High Collector Power Dissipation
- Complementary To The 2SD1513 NPN Transistor



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2SB1068	TO-92	Bulk	1000pcs/Bag
2SB1068-TA	TO-92	Tape	2000pcs/Box

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

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	-20	V
V _{CEO}	Collector-Emitter Voltage	-16	V
V _{EBO}	Emitter-Base Voltage	-6	V
Ic	Collector Current -Continuous	-2	А
P _D	Collector Power Dissipation	625	mW
R _{KJA}	Thermal Resistance *rom Junction *o Ambient	200	°C /W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	℃



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	-20			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-1mA,I _B =0	-16			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-0.1mA,I _C =0	-6			V
Collector cut-off current	I _{CBO}	V _{CB} =-16V,I _E =0			-0.1	7A
Emitter cut-off current	I _{EBO}	V _{EB} =-6V,I _C =0			-0.1	7A
DC comment acin	h _{FE(1)}	V _{CE} =-2V, I _C =-0.1A	135		650	
DC current gain	h _{FE(2)}	V _{CE} =-2V, I _C =-1.5A	100			
Collector-emitter saturation voltage	V _{CE(sat)1}	I _C =-1A,I _B =-10mA			-0.4	V
	V _{CE(sat)2}	I _C =-1.5A,I _B =-20mA			-0.5	V
	V _{CE(sat)3}	I _C =-1.5A,I _B =-75mA			-0.5	V
Base-emitter saturation voltage	V _{BE (sat)}	I _C =-1.5A,I _B =-75mA			-1.2	V
Base-emitter voltage	V _{BE}	V _{CE} =-6V, I _C =-5mA	-0.55		-0.65	V
Collector output capacitance	Cob	V _{CB} =-10V,I _E =0, f=1MHz		60		pF
Transition frequency	f⊤	Vce=-10V,lc=-50mA	100			MHz

CLASSIFICATION OF h_{FE(1)}

RANK	L	K	U
RANGE	135-270	200-400	300-650