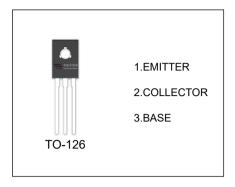


2SB1658 TRANSISTOR (PNP)

FEATURES

- Low V_{CE(sat)}
- High DC Current Gain



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2SB1658	TO-126	Bulk	200pcs/Bag
2SB1658-TU	TO-126	Tube	60pcs/Tube

MAXIMUM RATINGS (T_a =25 $^{\circ}$ C unless otherwise noted)

Symbol	Parameter	Value	Unit	
V _{CBO}	Collector-Base Voltage	-30	V	
V _{CEO}	Collector-Emitter Voltage	-30	V	
V _{EBO}	Emitter-Base Voltage	-6	V	
Ic	Collector Current	-5	А	
Pc	Collector Power Dissipation	1	W	
R _{0JA}	Thermal Resistance From Junction To Ambient	125	°C/W	
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	℃	



Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = -100μA,I _E =0	-30			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-1mA,I _B =0	-30			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = -100 \mu A, I_C = 0$	-6			V
Collector cut-off current	I _{CBO}	V _{CB} =-30V,I _E =0			-0.1	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} =-6V,I _C =0			-0.1	μA
DC commont make	h _{FE(1)}	V _{CE} =-2V, I _C =-1A	150		600	
DC current gain	h _{FE(2)}	V _{CE} =-2V, I _C =-4A	50			
Collector-emitter saturation voltage	V _{CE(sat)1}	I _C =-1A,I _B =-50mA			-0.15	V
	V _{CE(sat)2}	I _C =-2A,I _B =-100mA			-0.25	V
	V _{CE(sat)3}	I _C =-4A,I _B =-200mA			-0.5	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =-1A,I _B =-100mA			-1.5	V
Collector output capacitance	Cob	V _{CB} =-10V,I _E =0, f=1MHz		100		pF
Transition frequency	f _T	V _{CE} =-10V,I _C =-50mA		95		MHz