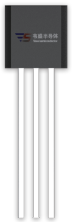
2SB561 TRANSISTOR (PNP)



TO-92

1.EMITTER
2.COLLECTOR
3.BASE

FEATURES

- Low Frequency Power Amplifier

ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2SB561	TO-92	Bul	1000pcs/Bag
2SB561-TA	TO-92	Tape	2000pcs/Box

MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	-25	V
V_{CEO}	Collector-Emitter Voltage	-20	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current -Continuous	-0.7	A
P_D	Collector Power Dissipation	500	mW
$R_{\theta JA}$	Thermal Resistance ˇrom Junction ˇo Ambient	250	℃ /W
T_J,T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	℃

T_a=25℃ unless otherwise specified

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	I_C=- 0.01mA,I_E=0	-25			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=-0.01mA,I_C=0	-5			V
Collector cut-off current	I_{CBO}	V_{CB}=-20V,I_E=0			-1	μA
Emitter cut-off current	I_{EBO}	V_{EB}=-5V,I_C=0			-1	μA
DC current gain	h_{FE}*	V_{CE}=-1V, I_C=-0.15A	85		240	
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C=-0.5A,I_B=-0.05A			-0.5	V
Base-emitter voltage	V_{BE}	V_{CE}=-1V, I_C=-0.15A			-1	V
Collector output capacitance	C_{ob}	V_{CB}=-10V,I_E=0, f=1MHz		20		pF
Transition frequency	f_T	V_{CE}=-1V, I_C=-0.15A		350		MHz

*Pulse test

CLASSIFICATION OF h_{FE}

RANK	B	C
RANGE	85-170	120-240