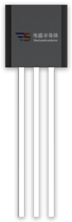
2SA1081 TRANSISTOR (PNP)



FEATURES

- Low Frequency Amplifier

ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2SA1081	TO-92	Bulk	1000pcs/Bag
2SA1081-TA	TO-92	Tap	2000pcs/Box

MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	-90	V
V_{CEO}	Collector-Emitter Voltage	-90	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current -Continuous	-0.1	A
P_D	Collector Power Dissipation	400	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	312	℃ /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	-90			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	I_C=-1mA,I_B=0	-90			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}=-50V,I_E=0			-0.1	μA
Emitter cut-off current	I_{EBO}	V_{EB}=-2V,I_C=0			-0.1	μA
DC current gain	h_{FE}	V_{CE}=-12V, I_C=-2mA	250		800	
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C=-10mA,I_B=-1mA			-0.2	V
Base-emitter voltage	V_{BE}	V_{CE}=-12V, I_C=-2mA		-0.6		V
Collector output capacitance	C_{ob}	V_{CB}=-10V,I_E=0, f=1MHz		3.5		pF
Transition frequency	f_T	V_{CE}=-12V,I_C=-2mA		90		MHz

CLASSIFICATION OF h_{FE}

RANK	D	E
RANGE	250-500	400-800