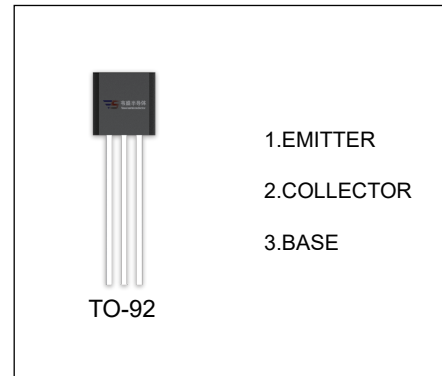


2SA1082 TRANSISTOR (PNP)

FEATURES

- Low Frequency Amplifier



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2SA1082	TO-92	Bulk	1000pcs/Bag
2SA1082-TA	TO-92	Tape	2000pcs/Box

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

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	-120	V
V_{CEO}	Collector-Emitter Voltage	-120	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current	-0.1	A
P_C	Collector Power Dissipation	400	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	312	$^{\circ}\text{C}/\text{W}$
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	$^{\circ}\text{C}$

$T_a=25\text{ }^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=-0.01\text{mA}, I_E=0$	-120			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=-1\text{mA}, I_B=0$	-120			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=-0.01\text{mA}, I_C=0$	-5			V
Collector cut-off current	I_{CBO}	$V_{CB}=-50\text{V}, I_E=0$			-0.1	KA
Emitter cut-off current	I_{EBO}	$V_{EB}=-2\text{V}, I_C=0$			-0.1	KA
DC current gain	h_{FE}	$V_{CE}=-12\text{V}, I_C=-2\text{mA}$	250		800	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=-10\text{mA}, I_B=-1\text{mA}$			-0.2	V
Base-emitter voltage	V_{BE}	$V_{CE}=-12\text{V}, I_C=-2\text{mA}$		-0.6		V
Collector output capacitance	C_{ob}	$V_{CB}=-10\text{V}, I_E=0, f=1\text{MHz}$		3.5		pF
Transition frequency	f_T	$V_{CE}=-12\text{V}, I_C=-2\text{mA}$		90		MHz

CLASSIFICATION OF h_{FE}

RANK	D	E
RANGE	250-500	400-800

