

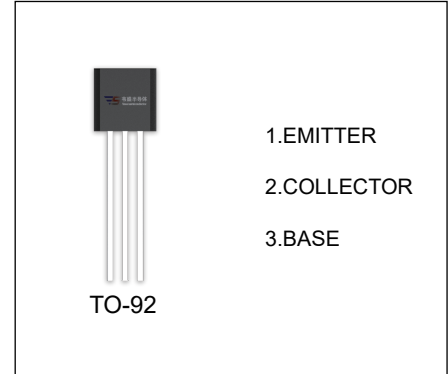
2SA1318 TRANSISTOR (PNP)

FEATURES

- Large Current Capacity and Wide ASO

APPLICATIONS

- Capable of Being Used in The Low Frequency to High Frequency Range



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2SA1318	TO-92	Bulk	1000pcs/Bag
2SA1318-TA	TO-92	Tape	2000pcs/Box

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

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	-60	V
V _{CEO}	Collector-Emitter Voltage	-50	V
V _{EBO}	Emitter-Base Voltage	-6	V
I _C	Collector Current -Continuous	-0.2	A
P _D	Collector Power Dissipation	500	mW
R _{θJA}	Thermal Resistance from Junction to Ambient	250	°C /W
T _J , T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

T_a=25 °C 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	-60			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-1mA, I _B =0	-50			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-0.01mA, I _C =0	-6			V
Collector cut-off current	I _{CBO}	V _{CB} =-40V, I _E =0			-0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =-5V, I _C =0			-0.1	μA
DC current gain	h _{FE(1)}	V _{CE} =-6V, I _C =-1mA	100		560	
	h _{FE(2)}	V _{CE} =-6V, I _C =-0.1mA	70			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-100mA, I _B =-10mA			-0.3	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =-100mA, I _B =-10mA			-1.0	V
Collector output capacitance	C _{ob}	V _{CB} =-6V, f=1MHz		4.5		pF
Transition frequency	f _T	V _{CE} =-6V, I _C =-10mA		200		MHz

CLASSIFICATION OF h_{FE(1)}

RANK	R	S	T	U
RANGE	100-200	140-280	200-400	280-560