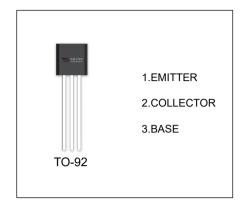


2SC2120 TRANSISTOR (NPN)

FEATURES

- High DC Current Gain
- Complementary to 2SA950



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2SC2120	TO-92	Bulk	1000pcs/Bag
2SC2120-TA	TO-92	Tape	2000pcs/Box

MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	35	V
V _{CEO}	Collector-Emitter Voltage	30	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current	0.8	А
Pc	Collector Power Dissipation	600	mW
R _{θ JA}	Thermal Resistance From Junction To Ambient	208	°C /W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C



Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 0.1mA,I _E =0	35			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =10mA,I _B =0	30			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =0.1mA,I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =35V,I _E =0			0.1	μA
Collector cut-off current	I _{CEO}	V _{CE} =25V,I _B =0			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =5V,I _C =0			0.1	μA
DC current gain	h _{FE}	V _{CE} =1V, I _C =100mA	100		320	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =500mA,I _B =20mA			0.5	V
Base-emitter voltage	V _{BE}	V _{CE} =1V, I _C =10mA			0.8	V
Collector output capacitance	C _{ob}	V _{CB} =10V,I _E =0, f=1MHz			13	pF
Transition frequency	f⊤	VcE=5V,Ic=10mA	100			MHz

CLASSIFICATION OF h_{FE}

RANK	0	Υ
RANGE	100-200	160-320



