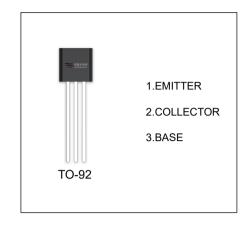


STC128 TRANSISTOR (NPN)

FEATURES

- Low Saturation Medium Current Application
- Extremely Low Collector Saturation Voltage
- Suitable for Low Voltage Large Current Drivers
- High DC Current Gain and Large Current Capability



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
STC128	TO-92	Bulk	1000pcs/Bag
STC128-TA	TO-92	Tape	2000pcs/Box

MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	20	V
V _{CEO}	Collector-Emitter Voltage	15	V
V _{EBO}	Emitter-Base Voltage	6.5	V
Ic	Collector Current	1	Α
Pc	Collector Power Dissipation	625	mW
R _{OJA}	Thermal Resistance From Junction To Ambient 200		°C/W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	$^{\circ}$



$T_a \text{=} 25\,^\circ\!\!\subset\,$ unless otherwise specified

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =50μA, I _E =0	20			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA, I _B =0	15			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =50μA, I _C =0	6.5			V
Collector cut-off current	I _{CBO}	V _{CB} =20V, I _E =0			0.1	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} =6V, I _C =0			0.1	μΑ
DC current gain	h _{FE}	V _{CE} =1V, I _C =100mA	150			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =500mA, I _B =50mA			0.3	V
Transition frequency	f⊤	V _{CE} =5V,I _C =50mA		260		MHz
Collector output capacitance	Cob	V _{CB} =10V, I _E =0, f=1MHz		5		pF