

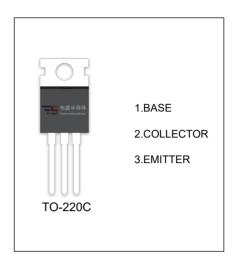
TIP110 DARLINGTON TRANSISTOR (NPN)

FEATURES

- High DC Current Gain : h_{FE}=1000 @ V_{CE}=4V, I_C=1A(Min.)
- Low Collector-Emitter Saturation Voltage
- Industrial Use

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

Symbol	Parameter	Value	Unit	
V _{CBO}	Collector-Base Voltage	60	V	
V _{CEO}	Collector-Emitter Voltage	60	V	
V _{EBO}	Emitter-Base Voltage	5	V	
Ic	Collector Current -Continuous	2	А	
Pc	Collector Power Dissipation	2	W	
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55 to +150	℃	



ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =10mA,I _E =0	60			V
Collector-emitter sustaining voltage	V _{CEO} (sus)	I _C =30mA,I _B =0	60			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =10mA,I _C =0	5			V
Collector cut-off current	I _{CEO}	V _{CE} =30V,I _B =0			2	mA
Collector cut-off current	I _{CBO}	V _{CB} =60V,I _E =0			1	mA
Emitter cut-off current	I _{EBO}	V _{EB} =5V,I _C =0			2	mA
DC augment agin	h _{FE(1)}	V _{CE} =4V,I _C =1A	1000			
DC current gain	h _{FE(2)}	V _{CE} =4V,I _C =2A	500			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =2A,I _B =8mA			2.5	V
Base-emitter voltage	V _{BE}	V _{CE} =4V,I _C =2A			2.8	V
Collector output capacitance	C _{ob}	V _{CB} =10V,I _E =0,f=0.1MHz			100	pF