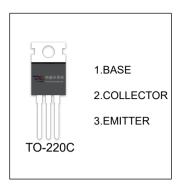


TIP147 Darlington Transistor (PNP)

FEATURES

- Monolithic Darlington Configuration
- Integrated Antiparallel Collector-Emitter Diode



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

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	-100	V
V _{CEO}	Collector-Emitter Voltage	-100	V
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current	-10	А
Pc	Collector Power Dissipation	2	W
R _{θJA}	Thermal Resistance from Junction to Ambient	62.5	°C/W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

ELECTRICAL CHARACTERISTICS (T_a=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltag	V _{(BR)CBO}	I _C =-1mA, I _E =0	-100			٧
Collector-emitter sustaining voltage	V _{CEO(sus)} *	I _C =-30mA,I _B =0	-100			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-10mA,I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =-100V,I _E =0			-1	mA
Collector cut-off current	I _{CEO}	V _{CE} =-50V,I _C =0			-2	mA
Emitter cut-off current	I _{EBO}	V _{EB} =-5V,I _C =0			-2	mA
DC current gain	h _{FE (1)}	V _{CE} =-4V, I _C =-5A	1000		12000	
Do current gam	h _{FE} (2)	V _{CE} =-4V, I _C =-10A	50			
Collector emitter esturation valtage	V _{CE(sat)(1)}	I _C =-5A,I _B =-10mA			-2	٧
Collector-emitter saturation voltage	V _{CE(sat)(2)}	I _C =-10A,I _B =-40mA			-3	٧
Base-emitter voltage	V _{BE}	V _{CE} =-4V, I _C =-10A			-3	V

^{*}Pulse test: pulse width ≤300µs, duty cycle≤ 2.0%.



