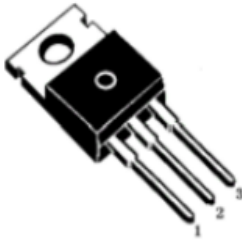


Marking code: TIP42C

Silicon PNP triode 1: base 2: collector 3: emitter

encapsulation mode: TO-220



FEATURES

Medium Power Linear Switching Applications

Complementary to TIP41C

Maximum ratings(Ta=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V _{CBO}	-100	V
Collector-Emitter Voltage	V _{CEO}	-100	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current	I _C	-6	A
Collector Power Dissipation	P _C	2	W
Junction Temperature	T _J	150	°C
Storage Temperature	T _{stg}	-65~150	°C

Electrical Characteristics (Ta=25°C unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Max	Unit
Collector-Base Breakdown Voltage	V _{CBO}	I _C =-1mA I _E =0	-100		V
Collector-Emitter Sustaining Voltage	V _{CEO}	I _C =-30mA I _B =0	-100		V
Emitter-Base Breakdown Voltage	V _{EBO}	I _E =-1mA I _C =0	-5		V
Collector Cutoff Current	I _{CBO}	V _{CB} =-100V I _E =0		-0.4	mA
Collector Cutoff Current	I _{CEO}	V _{CE} =-60V I _B =0		-0.7	mA
Emitter Cutoff Current	I _{EBO}	V _{EB} =-5V I _C =0		-1	mA
DC Current Gain	HFE(1)	V _{CE} =-4V I _C =-300mA	-30		
	HFE(2)	V _{CE} =-4V I _C =-3A	-15	-75	
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C =-6A I _B =-600mA		-1.5	V
Base-Emitter On Voltage	V _{BE(on)}	V _{CE} =-4V I _C =-6A		-2	V
transition frequency	f _T	V _{CE} =-10V I _C =-500mA f=1MHz	3		MHz

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