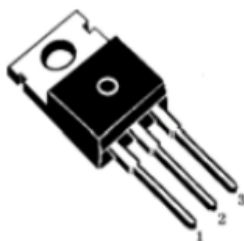


Marking code: TIP41C

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

encapsulation mode: TO-220



### FEATURES

Medium Power Linear Switching Applications

Complementary to TIP42C

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

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V <sub>CBO</sub>	100	V
Collector-Emitter Voltage	V <sub>CEO</sub>	100	V
Emitter-Base Voltage	V <sub>EBO</sub>	5	V
Collector Current	I <sub>C</sub>	6	A
Collector Power Dissipation	P <sub>C</sub>	2	W
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature	T <sub>stg</sub>	-65~150	°C

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

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

Address : yangzhou yizheng economic development zone corporation min tai road no . 1

Zip Code: 211400

TEL: 0514-80861813

FAX: 0514-80861806

Website: <http://guoxin-yz.com>