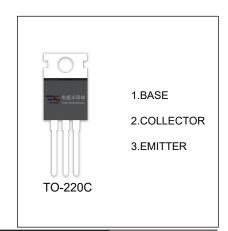


TIP42/42A/42B/42C TRANSISTOR (PNP)

FEATURES

- Medium Power Linear Switching Applications
- Complement to TIP41/41A/41B/41C



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

Symbol	Parameter	TIP42	TIP42A	TIP42B	TIP42C	Unit
V _{CBO}	Collector-Base Voltage	-40	-60	-80	-100	V
V _{CEO}	Collector-Emitter Voltage	-40	-60	-80	-100	V
V _{EBO}	Emitter-Base Voltage	-5				
Ic	Collector Current -Continuous	-6				
Pc	Collector Power Dissipation	2				
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55to+150				

ELECTRICAL CHARACTERISTICS (Ta=25℃ unless otherwise specified)

Parameter		Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	rn voltage TIP42 TIP42A TIP42B TIP42C		I _C = -1mA, I _E =0	-40 -60 -80 -100		V
Collector-emitter breakdown voltage TIP42 TIP42A TIP42B TIP42C		V _{(BR)CEO} *	I _C = -30mA, I _B =0	-40 -60 -80 -100		V
Emitter-base breakdown voltage		V _{(BR)EBO}	I _E = -1mA, I _C =0	-5		V
Collector cut-off current	TIP42 TIP42A TIP42B TIP42C	I _{CBO}	V _{CB} =-40V, I _E =0 V _{CB} =-60V, I _E =0 V _{CB} =-80V, I _E =0 V _{CB} =-100V, I _E =0		-0.4	mA
Collector cut-off current TIP42/42A TIP42B/42C		I _{CEO}	V_{CE} = -30V, I_{B} = 0 V_{CE} = -60V, I_{B} = 0		-0.7	mA
Emitter cut-off current		I _{EBO}	V _{EB} =-5V, I _C =0		-1	mA
DC current gain		h _{FE(1)}	V _{CE} =-4V, I _C =-0.3A	30		
		h _{FE(2)}	V _{CE} =-4 V, I _C = -3A	15	75	
Collector-emitter saturation voltage		V _{CE(sat)}	I _C =-6A, I _B =-0.6A		-1.5	V
Base-emitter voltage		V_{BE}	V _{CE} =-4V, I _C =-6A		-2	V
Transition frequency		f⊤	V _{CE} =-10V,I _C =-0.5	3		MHz

*Pulse test



