

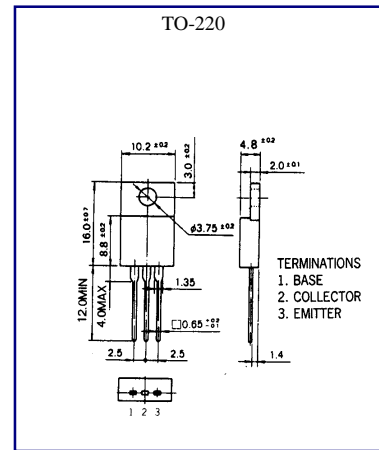


TIP42 SERIES (TIP42/42A/42B/42C)

PNP EPITAXIAL SILICON TRANSISTOR

MEDIUM POWER LINEAR SWITCHING APPLICATIONS

•Complementary to TIP41/41A/41B/41C



ABSOLUTE MAXIMUM RATINGS (T_a=25°C)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage :TIP41	V _{CB0}	-40	V
:TIP41A		-60	V
:TIP41B		-80	V
:TIP41C		-100	V
Collector-Emitter Voltage :TIP41	V _{CE0}	-40	V
:TIP41A		-60	V
:TIP41B		-80	V
:TIP41C		-100	V
Emitter-Base voltage	V _{EBO}	-5	V
Collector Current (DC)	I _C	-6	A
Collector Current (Pulse)	I _C	-10	A
Base Current (DC)	I _B	-2	A
Collector Dissipation (T _c =25°C)	P _C	65	W
Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-50~150	°C

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ELECTRICAL CHARACTERISTICS (Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Collector Emitter Sustaining Voltage	:TIP41 :TIP41A :TIP41B :TIP41C	BV _{CEO(SUS)}	I _C =-30mA, I _B =0	-40 -600 -80 -100		V V V V
Collector Cutoff Current	:TIP41/41A :TIP41B/41C	I _{CEO}	V _{CE} = -30V, I _B =0 V _{CE} = -60V, I _B =0		-0.7 -0.7	mA mA
Collector Cutoff Current	:TIP41 :TIP41A :TIP41B :TIP41C	I _{CES}	V _{CE} = -40V, V _{EB} = 0 V _{CE} = 60V, V _{EB} = 0 V _{CE} = -80V, V _{EB} = 0 V _{CE} = -100V, V _{EB} = 0		-400 -400 -400 -400	μA μA μA μA
Emitter Cutoff Current		I _{EBO}	V _{EB} = -5V, I _C =0		-1	mA
DC Current Gain		h _{FE}	V _{CE} = -4V, I _C =- 0.3A	30 15	75	
Collector- Emitter Saturation Voltage		V _{CE(sat)}	V _{CE} = -4V, I _C =-3A		-1.5	V
Base- Emitter On Voltage		V _{BE(on)}	I _C =-6A, I _B =-600mA		-2.0	V
Current Gain Bandwith Product		f _T	V _{CE} = -4V, I _C =-6A V _{CE} = - 10V, I _C =500mA f=1MHZ	3.0		MHZ