



Micro Commercial Components

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TIP42/42A/42B/42C

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- The complementary NPN types are the TIP41 respectively
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Marking : Part Number

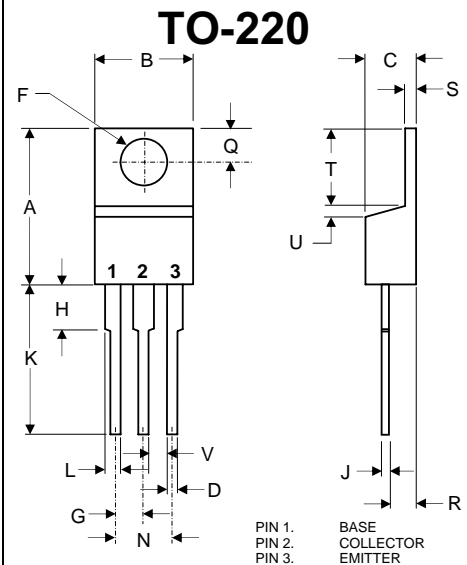
Silicon PNP Power Transistors

Absolute Maximum Ratings @ T_a = 25°C (unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CB0} TIP42 TIP42A TIP42B TIP42C	Collector-base voltage (Open emitter)	-40 -60 -80 -100	V
V _{CE0} TIP42 TIP42A TIP42B TIP42C	Collector-emitter voltage (Open base)	-40 -60 -80 -100	V
V _{EBO}	Emitter-base Voltage (Open collector)	-5	V
I _C	Collector Current	-6	A
I _{CM}	Collector Current Pulse	-10	A
I _B	Base Current	-2	A
P _C	Total Device Dissipation(T _a =25°C)	-2	W
	Total Device Dissipation(T _c =25°C)	65	W
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature Range	-65 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
V _{CE0(SUS)} TIP42 TIP42A TIP42B TIP42C	Collector-emitter sustaining voltage (I _C =-30mA; I _B =0)	-40 -60 -80 -100		V
V _{CE(sat)}	Collector-emitter Saturation Voltage (I _C =-6A I _B =-0.6A)		-1.5	V
V _{BE}	Base-emitter Voltage (I _C =-6A; V _{CE} =-4V)		-2.0	V
I _{CES} TIP42 TIP42A TIP42B TIP42C	Collector cut-off current (V _{CE} =-40V; V _{EB} =0) (V _{CE} =-60V; V _{EB} =0) (V _{CE} =-80V; V _{EB} =0) (V _{CE} =-100V; V _{EB} =0)	-0.4		mA
I _{CEO} TIP42/42A TIP42B/C	Collector cut-off current (V _{CE} =-30V; V _{EB} =0) (V _{CE} =-60V; V _{EB} =0)	-0.7		mA
I _{EBO}	Emitter cut-off current (V _{EB} =-5V; I _C =0)		-1.0	mA
h _{fe}	DC current gain (I _C =-0.3A; V _{CE} =-4V) (I _C =-3A; V _{CE} =-4V)	30 15	75	
f _T	Transition frequency (I _C =-0.5A; V _{CE} =-10V)	3		MHZ



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.560	.625	14.22	15.88	
B	.380	.420	9.65	10.67	
C	.140	.190	3.56	4.82	
D	.020	.045	0.51	1.14	
F	.139	.161	3.53	4.09	∅
G	.190	.110	2.29	2.79	
H	---	.250	---	6.35	
J	.012	.025	0.30	0.64	
K	.500	.580	12.70	14.73	
L	.045	.060	1.14	1.52	
N	.190	.210	4.83	5.33	
Q	.100	.135	2.54	3.43	
R	.080	.115	2.04	2.92	
S	.045	.055	1.14	1.39	
T	.230	.270	5.84	6.86	
U	----	.050	----	1.27	
V	.045	----	1.15	----	

Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7.



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Ordering Information

Device (Part Number)-BP	Packing Bulk;1Kpcs/Box
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