



Micro Commercial Components

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TIP32/32A/32B/32C

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- The complementary NPN types are the TIP31 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 @ $T_a = 25^\circ\text{C}$ (unless otherwise noted)

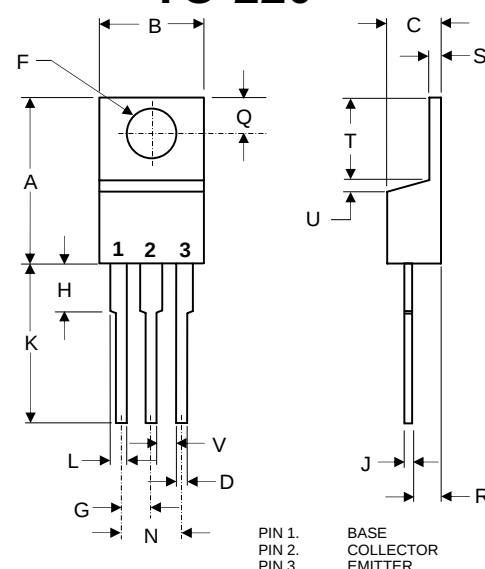
Symbol	Parameter	Value	Unit
V_{CBO} TIP32 TIP32A TIP32B TIP32C	Collector-base voltage (Open emitter)	-40 -60 -80 -100	V
V_{CEO} TIP32 TIP32A TIP32B TIP32C	Collector-emitter voltage (Open base)	-40 -60 -80 -100	V
V_{EBO}	Emitter-base Voltage (Open collector)	-5	V
I_C	Collector Current	-3	A
I_{CM}	Collector Current Pulse	-5	A
I_B	Base Current	-1	A
P_C	Total Device Dissipation($T_a=25^\circ\text{C}$)	2	W
	Total Device Dissipation($T_c=25^\circ\text{C}$)	40	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{STG}	Storage Temperature Range	-65 to +150	$^\circ\text{C}$

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
$V_{CE(SUS)}$ TIP32 TIP32A TIP32B TIP32C	Collector-emitter sustaining voltage ($I_C=-30\text{mA}$; $I_B=0$)	-40 -60 -80 -100		V
$V_{CE(sat)}$	Collector-emitter Saturation Voltage ($I_C=-3A$ $I_B=-0.375A$)		-1.2	V
V_{BE}	Base-emitter Voltage ($I_C=-3A$; $V_{CE}=-4V$)		-1.8	V
I_{CES} TIP32 TIP32A TIP32B TIP32C	Collector cut-off current ($V_{CE}=-40V$; $V_{EB}=0$) ($V_{CE}=-60V$; $V_{EB}=0$) ($V_{CE}=-80V$; $V_{EB}=0$) ($V_{CE}=-100V$; $V_{EB}=0$)	-0.2		mA
I_{CEO} TIP32/32A TIP32B/C	Collector cut-off current ($-V_{CE}=30V$; $V_{EB}=0$) ($-V_{CE}=60V$; $V_{EB}=0$)	-0.3		mA
I_{EBO}	Emitter cut-off current ($-V_{EB}=5V$; $I_C=0$)		-1.0	mA
H_{fe}	DC current gain ($I_C=-1A$; $V_{CE}=-4V$) ($I_C=-3A$; $V_{CE}=-4V$)	25 10	50	
f_T	Transition frequency ($I_C=-0.5A$; $V_{CE}=-10V$)	3		MHZ

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

TO-220



DIM	DIMENSIONS				NOTE
	INCHES		MM		
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	Ø
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	----	

Ordering Information

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

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