

**Micro Commercial Components** 



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## **Features**

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information) The complementary NPN types are the TIP31 respectively Epoxy meets UL 94 V-0 flammability rating

- Moisure Sensitivity Level 1
- Marking : Part Number

### Absolute Maximum Ratings @ T<sub>a</sub> = $25^{\circ}$ (unless otherwise noted)

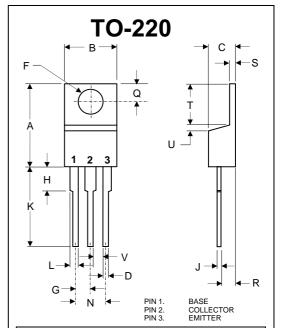
Symbol	Parameter	Value	Unit
V <sub>CBO</sub> TIP32 TIP32A TIP32B TIP32C	Collector-base voltage (Open emitter)	-40 -60 -80 -100	V
V <sub>CEO</sub> TIP32 TIP32A TIP32B TIP32C	Collector-emitter voltage (Open base)	-40 -60 -80 -100	V
V <sub>EBO</sub>	Emitter-base Voltage (Open collector)	-5	V
lc	Collector Current	-3	A
I <sub>CM</sub>	Collector Current Pulse	-5	A
IB	Base Current	-1	A
Pc	Total Device Dissipation(Ta=25°C)	2	W
	Total Device Dissipation(Tc=25°C)	40	W
TJ	Junction Temperature	150	°C
T <sub>STG</sub>	Storage Temperature Range	-65 to +150	°C
<b>Electrical</b>	haracteristics @ 25°C Unless Atherwise	s Snecified	

#### Electrical Unaracteristics @ 25°C Uniess Utnerwise Specifie

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

## TIP32/32A/32B/32C

# Silicon PNP **Power Transistors**



			NSIONS		
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
А	.560	.625	14.22	15.88	
В	.380	.420	9.65	10.67	
С	.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	
Н		.250		6.35	
J	.012	.025	0.30	0.64	
К	.500	.580	12.70	14.73	
L	.045	.060	1.14	1.52	
Ν	.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	
Т	.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	Packing
Part Number-BP	Bulk; 1Kpcs/Box

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