



Micro Commercial Components



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TIP122

NPN Silicon Transistors

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Darlington configuration in Jedec TO-220 package
- The complementary PNP types are the TIP127 respectively.
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	100	V
V_{CBO}	Collector-Base Voltage	100	V
V_{EBO}	Emitter-Base Voltage	5.0	V
I_{CP}	Peak Collector Current	8.0	A
I_C	Collector Current	5.0	A
P_C	Collector power dissipation	65	W
T_J	Junction Temperature	-55 to +150	$^{\circ}C$
T_{STG}	Storage Temperature	-55 to +150	$^{\circ}C$

Electrical Characteristics @ 25 $^{\circ}C$ Unless Otherwise Specified

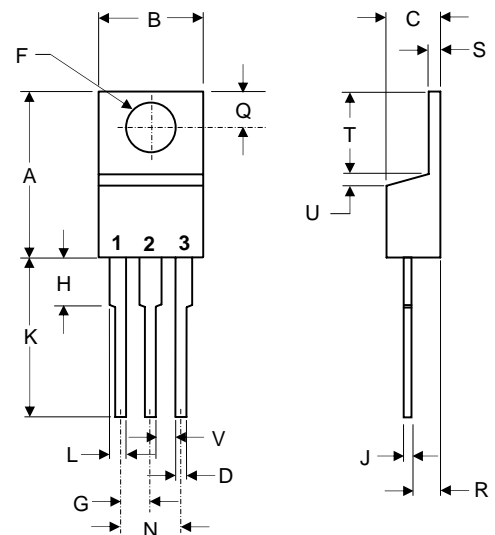
Symbol	Parameter	Min	Max	Units
OFF CHARACTERISTICS				
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ($I_C=30mA_{dc}$, $I_B=0$)	100	---	Vdc
I_{CBO}	Collector-Base Cutoff Current ($V_{CB}=100V_{dc}$, $I_E=0$)	---	0.2	mA _{dc}
I_{EBO}	Emitter-Base Cutoff Current ($V_{EB}=5.0V_{dc}$, $I_C=0$)	---	2.0	mA _{dc}
I_{CEO}	Collector-Emitter Cutoff Current ($V_{CE}=50V_{dc}$, $I_B=0$)	---	0.5	mA _{dc}

ON CHARACTERISTICS

h_{FE-1}	Forward Current Transfer Ratio ($I_C=0.5A_{dc}$, $V_{CE}=3.0V_{dc}$)	1000	---	
h_{FE-2}	Forward Current Transfer Ratio ($I_C=3.0A_{dc}$, $V_{CE}=3.0V_{dc}$)	1000	---	
$V_{CE(sat)-1}$	Collector-Emitter Saturation Voltage ($I_C=3.0A_{dc}$, $I_B=12mA_{dc}$)	---	2.0	Vdc
$V_{CE(sat)-2}$	Collector-Emitter Saturation Voltage ($I_C=5.0A_{dc}$, $I_B=20mA_{dc}$)	---	4.0	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage ($I_C=3.0A_{dc}$, $V_{CE}=3.0A_{dc}$)	---	2.5	Vdc

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	∅
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	----	



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Ordering Information :

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

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