



Micro Commercial Components



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TIP122

NPN Silicon Transistors

Features

- Halogen free available upon request by adding suffix "-HF"
- 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
- Mounting Torque: 5 in-lbs Maximum

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	$^{\circ}\text{C}$
T_{STG}	Storage Temperature	-55 to +150	$^{\circ}\text{C}$

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

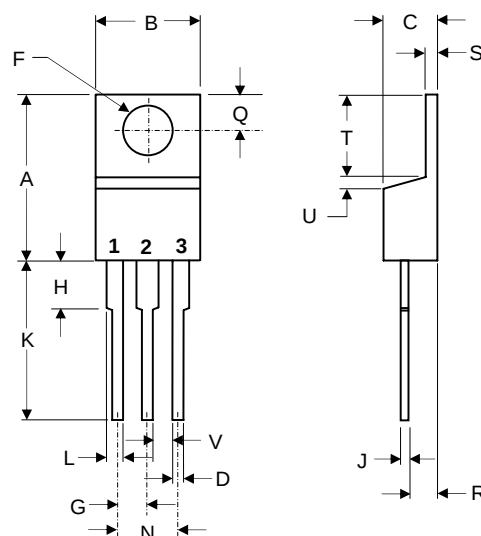
Symbol	Parameter	Min	Max	Units
OFF CHARACTERISTICS				
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ($I_C=30\text{mA}$, $I_B=0$)	100	---	Vdc
I_{CBO}	Collector-Base Cutoff Current ($V_{CB}=100\text{Vdc}$, $I_E=0$)	---	0.2	mA
I_{EBO}	Emitter-Base Cutoff Current ($V_{EB}=5.0\text{Vdc}$, $I_C=0$)	---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

ON CHARACTERISTICS

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

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

TO-220



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	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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

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Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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