



Micro Commercial Components

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TIP122

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
- Moisure 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	Α
l _c	Collector Current	5.0	Α
Pc	Collector power dissipation	65	W
T_J	Junction Temperature	-55 to +150	°C
T_{STG}	Storage Temperature	-55 to +150 °C	

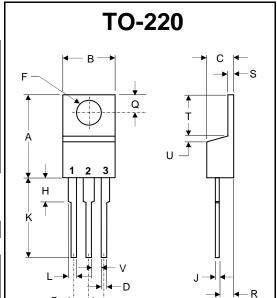
Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHARA	CTERISTICS		•	
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage (I_C =30mAdc, I_E =0)	100		Vdc
Ісво	Collector-Base Cutoff Current $(V_{CB}=100Vdc, I_E=0)$		0.2	mAdc
I _{EBO}	Emitter-Base Cutoff Current $(V_{EB}=5.0Vdc, \xi=0)$		2.0	mAdc
I _{CEO}	Collector-Emitter Cutoff Current $(V_{CE}=50Vdc, I_{B}=0)$		0.5	mAdc
ON CHARACTERISTICS				

h _{FE-1}	Forward Current Transfer Ratio	1000	000	
	(I _C =0.5Adc, V _{CE} =3.0Vdc)			
h _{FE-2}	Forward Current Transfer Ratio	1000		
	(I _C =3.0Adc, V _{CE} =3.0Vdc)			
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage		2.0	Vdc
	$(I_C=3.0Adc, b=12mAdc)$			
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage		4.0	Vdc
	$(I_C=5.0Adc, b=20mAdc)$			
$V_{BE(sat)}$	Base-Emitter Saturation Voltage		2.5	Vdc
(***)	(I _C =3.0Adc, V _{CE} =3.0Adc)			

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

NPN Silicon Transistors



	DIMENSIONS				
	INC	HES	MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.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		.157		4.00	
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	
Т	.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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