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TIP122

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
- Moisure 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
l _{CP}	Peak Collector Current	8.0	Α
l _c	Collector Current	5.0	Α
Pc	Collector power dissipation	65	W
TJ	Junction Temperature -55 to +150		°C
T _{STG}	Storage Temperature -55 to +150		°C

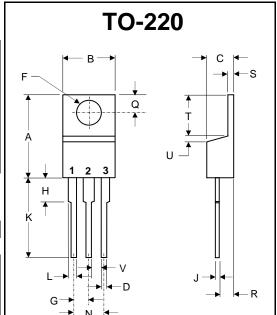
Electrical Characteristics @ 25°C Unless Otherwise Specified

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

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h _{FE-1}	Forward Current Transfer Ratio	1000		
	(I _C =0.5Adc, V _{CE} =3.0Vdc)			
h _{FE-2}	Forward Current Transfer Ratio	1000	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	INCHES		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		.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	
Т	.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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