

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- · Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates RoHS Compliant. See Ordering Information)

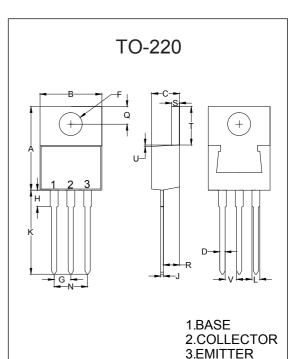
Maximum Ratings @ 25°C Unless Otherwise Specified

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 4.167°C/W Junction to Case
- Thermal Resistance: 62.5°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit	
	TIP30		-40	V
Collector-Base	TIP30A	V _{CBO}	-60	
Voltage	TIP30B	V CBO	-80	
	TIP30C		-100	
	TIP30		-40	V
Collector-Emitter Voltage	TIP30A	\/	-60	
	TIP30B	V _{CEO}	-80	
	TIP30C		-100	
Emitter-Base Voltage	V _{EBO}	-5	V	
Continuous Collector C	I _C	-1	Α	
Peak Collector Current	I _{CM}	-3	Α	
Base Current	I _B	-0.4	Α	
Power Dissipation @To	P_D	30	W	
Power Dissipation @TA	P_{D}	2	W	

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

PNP Silicon Power Transistors



DIMENSIONS					
DIM	INC	HES	IV	IM	NOTE
DIIVI	MIN	MAX	MIN	MAX	INOTE
Α	0.560	0.625	14.22	15.88	
В	0.380	0.420	9.65	10.67	
С	0.140	0.190	3.56	4.82	
D	0.020	0.045	0.51	1.14	
F	0.139	0.161	3.53	4.09	Ф
G	0.090	0.110	2.29	2.79	
Н		0.250		6.35	
J	0.012	0.025	0.30	0.64	
K	0.500	0.580	12.70	14.73	
L	0.045	0.060	1.14	1.52	
N	0.190	0.210	4.83	5.33	
Q	0.100	0.135	2.54	3.43	
R	0.080	0.115	2.04	2.92	
S	0.045	0.055	1.14	1.39	
Т	0.230	0.270	5.84	6.86	
U		0.050		1.27	
V	0.045		1.15		



Electrical Characteristics @ T_A =25°C Unless Otherwise Specified

Parameter		Symbol	Min	Тур	Max	Units	Conditions	
Collector-Emitter Breakdown Voltage	TIP30	V _{(BR)CEO}	-40			V	I _C =-30mA, I _B =0	
	TIP30A		-60					
	TIP30B		-80					
	TIP30C		-100					
Collector Cutoff Current	TIP30	- I _{CES}			-200	μA	V _{CE} =-40V, V _{EB} =0	
	TIP30A				-200	μA	V _{CE} =-60V, V _{EB} =0	
	TIP30B				-200	μA	V _{CE} =-80V, V _{EB} =0	
	TIP30C				-200	μA	V _{CE} =-100V, V _{EB} =0	
Collector Cutoff Current	TIP30	I _{CEO}			-300	μA	V _{CE} =-30V, I _B =0	
	TIP30A				-300	μA	V _{CE} =-30V, I _B =0	
	TIP30B				-300	μA	V _{CE} =-60V, I _B =0	
	TIP30C				-300	μA	V _{CE} =-60V, I _B =0	
Emitter Cutoff Current		I _{EBO}			-1	mA	V_{EB} =-5V, I_{C} =0	
DC Current Gain		h _{FE(1)}	40				V_{CE} =-4V, I_{C} =-0.2A	
		h _{FE(2)}	15		75		V_{CE} =-4V, I_{C} =-1A	
Collector-Emitter Saturation Voltage		V _{CE(sat)}			-0.7	V	I _C =-1A, I _B =-125mA	
Base-Emitter On Voltage		V _{BE(on)}			-1.3	V	V_{CE} =-4V, I_{C} =-1A	
Transition Frequency		f _T	3			MHz	V _{CE} =-10V, I _C =-200mA, f=1MHz	
Small-Signal Current Gain		h _{fe}	20				I _C =-0.2A, V _{CE} =-10V, f=1KHz	



Ordering Information

Device	Packing
Part Number-BP	Bulk:50pcs/Tube,1Kpcs/Box,5Kpcs/Carton

Note: Adding "-HF" Suffix For Halogen Free, eg. Part Number-BP-HF

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