

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)

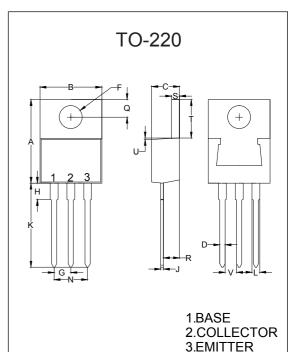
Maximum Ratings @ 25°C Unless Otherwise Specified

- 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 Voltage	TIP30A	V _{CBO}	-60	
	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 **INCHES** MM DIM NOTE MIN MAX MIN MAX A 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 1.14 0.51 0.139 0.161 4.09 3.53 0.090 0.110 G 2.29 2.79 Н 0.250 6.35 0.012 0.025 0.30 0.64 0.500 0.580 12.70 14.73 L 0.045 0.060 1.14 1.52 0.190 0.210 Ν 4.83 5.33 0.100 0.135 2.54 Q 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 0.050 1.27 ٧ 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

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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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