

Features

- · Low Collector-Emitter Saturation Voltage
- · High DC Current Gain
- · Monolithic Construction with Built-in Base-Emitter Shunt Resistors
- · 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 (Note1) ("P" Suffix Designates RoHS Compliant. See Ordering Information)

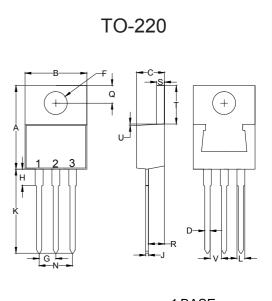
Maximum Ratings @ 25°C Unless Otherwise Specified

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 1.56°C/W Junction to Case

Parameter	Symbol	Rating	Unit	
	TIP105		-60	V
Collector-Base Voltage	TIP106	V_{CBO}	-80	
	TIP107		-100	
Collector-Emitter	TIP105		-60	V
	TIP106	V_{CEO}	-80	
Voltage	TIP107		-100	
Emitter-Base Voltage	V _{EBO}	-5	V	
Continuous Collector C	I _C	-8	Α	
Peak Collector Current	I _{CM}	-15	Α	
Base Current	I _B	-1	Α	
Power Dissipation @To	P _D	80	W	

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

PNP Plastic Medium-Power Silicon Transistors



1.BASE 2.COLLECTOR 3.EMITTER

DIMENSIONS					
DIM	INCHES		M	М	NOTE
Dilvi	MIN	MAX	MIN	MAX	NOTE
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	TIP105		-60			V		
	TIP106	V _{(BR)CEO}	-80				I _C =-30mA, I _B =0	
	TIP107		-100					
Collector Cutoff Current	TIP105				-50	μA	V _{CB} =-60V, I _E =0	
	TIP106	I _{CBO}			-50	μA	V_{CB} =-80V, I_{E} =0	
	TIP107				-50	μA	V _{CB} =-100V, I _E =0	
Collector Cutoff Current	TIP105	I _{CEO}			-50	μA	V _{CE} =-30V, I _B =0	
	TIP106				-50	μA	V _{CE} =-40V, I _B =0	
	TIP107				-50	μA	V _{CE} =-50V, I _B =0	
Emitter Cutoff Current		I _{EBO}			-8	mA	V_{EB} =-5V, I_{C} =0	
DC Current Gain		h _{FE(1)}	1000		20000		V_{CE} =-4V, I_{C} =-3A	
DC Current Gain	h _{FE(2)}		200				V_{CE} =-4V, I_{C} =-8A	
Collector-Emitter Saturation Voltage		V _{CE(sat)}			-2.0	V	I _C =-3A, I _B =-6mA	
					-2.5	V	I _C =-8A, I _B =-80mA	
Base-Emitter On Voltage		V _{BE(on)}			-2.8	V	V_{CE} =-4V, I_{C} =-8A	
Small-Signal Current Gain		h _{fe}	4				I _C =-3.0A, V _{CE} =-4.0V, f=1.0MHz	
Output Capacitance		C _{ob}			300	pF	V _{CB} =-10V, I _E =0, f=0.1MHz	



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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