

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"
- · Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix Designates RoHS Compliant. See Ordering Information)

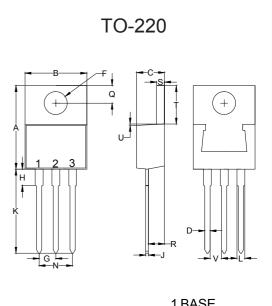
Maximum Ratings @ 25°C Unless Otherwise Specified

- 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		
	TIP100		60	V	
Collector-Base Voltage	TIP101	V_{CBO}	80		
	TIP102		100	1	
Callantan Fraittan	TIP100		60	V	
Collector-Emitter Voltage	TIP101	V_{CEO}	80		
Vollago	TIP102		100		
Emitter-Base Voltage	V _{EBO}	5	V		
Continuous Collector Current		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.

NPN Plastic Medium-Power Silicon Transistors



1.BASE 2.COLLECTOR 3.EMITTER

	DIMENSIONS					
DIM	INCHES		M	IM	NOTE	
	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	TIP100		60					
	TIP101	V _{(BR)CEO}	80			V	I _C =30mA, I _B =0	
	TIP102		100					
	TIP100				50	μA	V _{CB} =60V, I _E =0	
Collector Cutoff Current	TIP101	I _{CBO}			50	μA	V _{CB} =80V, I _E =0	
	TIP102				50	μA	V _{CB} =100V, I _E =0	
Collector Cutoff Current	TIP100				50	μA	V _{CE} =30V, I _B =0	
	TIP101	I _{CEO}			50	μA	V _{CE} =40V, I _B =0	
	TIP102				50	μA	V _{CE} =50V, I _B =0	
Emitter Cutoff Current		I _{EBO}			8	mA	V_{EB} =5V, I_C =0	
DC Current Coin		h _{FE(1)}	1000		20000		V_{CE} =4V, I_{C} =3A	
DC Current Gain	C Current Gain h _r		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}			200	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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