

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)

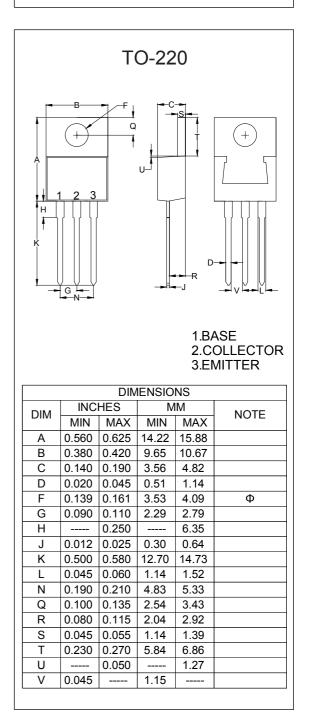
Maximum Ratings @ 25°C Unless Otherwise Specified

- 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
	TIP100		60	V
Collector-Base Voltage	TIP101	V _{CBO}	80	
	TIP102		100	
Collector-Emitter Voltage	TIP100		60	V
	TIP101	V _{CEO}	80	
	TIP102		100	
Emitter-Base Voltage	V _{EBO}	5	V	
Continuous Collector C	I _C	8	A	
Peak Collector Current	I _{CM}	15	A	
Base Current		I _B	1	A
Power Dissipation @T _C	P _D	80	W	

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

NPN Plastic Medium-Power Silicon Transistors





Electrical Characteristics @ $T_A=25^{\circ}C$ Unless Otherwise Specified

Parameter		Symbol	Min	Тур	Max	Units	Conditions
Collector-Emitter Breakdown Voltage	TIP100	V _{(BR)CEO}	60			V	I _C =30mA, I _B =0
	TIP101		80				
	TIP102		100				
Collector Cutoff Current	TIP100	I _{CBO}			50	μA	V _{CB} =60V, I _E =0
	TIP101				50	μA	V _{CB} =80V, I _E =0
	TIP102				50	μA	V _{CB} =100V, I _E =0
Collector Cutoff Current	TIP100	I _{CEO}			50	μA	V _{CE} =30V, I _B =0
	TIP101				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 Gain		h _{FE(1)}	1000		20000		V _{CE} =4V, I _C =3A
		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}			200	pF	V _{CB} =10V, I _E =0, f=0.1MHz

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Ordering Information

Device	Packing
Part Number-BP	Bulk: 1Kpcs/Box

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

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