

Features

- The Complementary PNP Types are the TIP127 Respectively
- 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 Designate 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

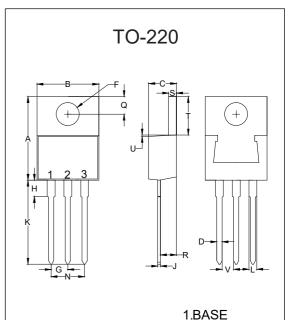
• Thermal Resistance: 1.92°C/W Junction to Case

• Thermal Resistance: 62.5°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	100	V
Collector-Emitter Voltage	V_{CEO}	100	V
Emitter-Base Voltage	V _{EBO}	5	V
Continuous Collector Current	I _C	5	А
Peak Collector Current	I _{CM}	8	Α
Power Dissipation @ T _C =25°C	P_{D}	65	W
Power Dissipation @ T _A =25°C	P _D	2	W

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

NPN Silicon Transistors



2.COLLECTOR 3.EMITTER

DIMENSIONS **INCHES** MM DIM NOTE MIN MAX MIN MAX A 0.560 0.625 14.22 15.88 0.380 0.420 9.65 10.67 С 0.140 0.190 3.56 4.82 0.020 0.045 1.14 0.51 0.139 0.161 4.09 3.53 0.090 0.110 2.79 G 2.29 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 3.43 2.54 Q 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 1.15 ٧ 0.045

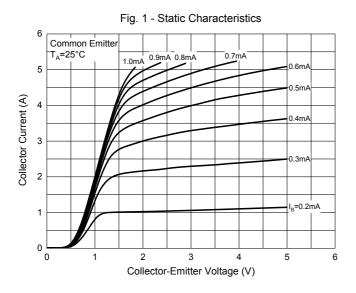


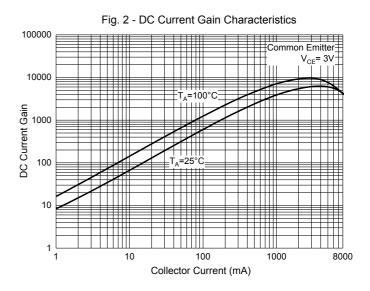
Electrical Characteristics @ T_A =25°C Unless Otherwise Specified

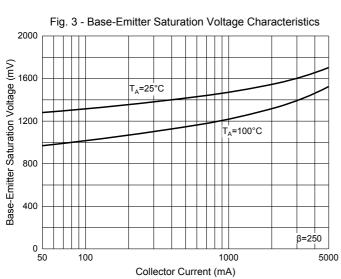
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	100			V	$I_C=30$ mA, $I_B=0$
Collector Cutoff Current	I _{CBO}			0.2	mA	V _{CB} =100V, I _E =0
Collector Cutoff Current	I _{CEO}			0.5	mA	V_{CE} =50V, I_{B} =0
Emitter Cutoff Current	I _{EBO}			2.0	mA	$V_{EB}=5V$, $I_{C}=0$
DC Current Gain	h _{FE(1)}	1000				V_{CE} =3V, I_{C} =0.5A
	h _{FE(2)}	1000				$V_{CE}=3V$, $I_{C}=3A$
Collector-Emitter Saturation Voltage	V _{CE(sat)}			2.0	V	I _C =3A, I _B =12mA
				4.0	V	$I_C=5A$, $I_B=20mA$
Base-Emitter On Voltage	V_{BE}			2.5	V	$V_{CE}=3V$, $I_{C}=3A$

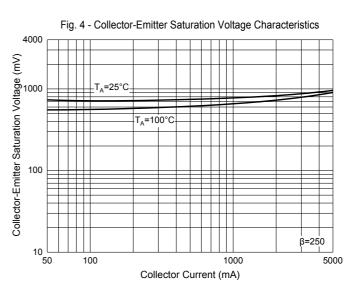


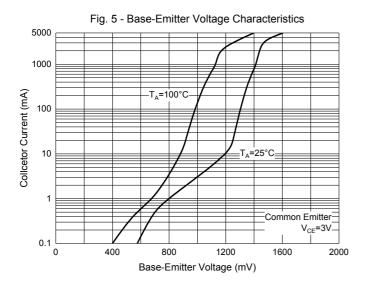
Curve Characteristics

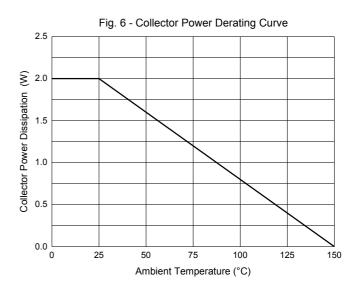














Ordering Information

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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