

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)

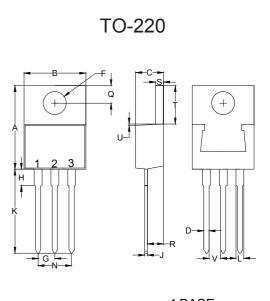
Maximum Ratings @ 25°C Unless Otherwise Specified

- 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	
	TIP105		-60	V
Collector-Base Voltage	TIP106	V_{CBO}	-80	
	TIP107		-100	
Collector-Emitter Voltage	TIP105		-60	V
	TIP106	V_{CEO}	-80	
	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 INCHE		HES	M	NOTE	
DIIVI	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	
Ν	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	
0 11 1 5 111	TIP105		-60					
Collector-Emitter Breakdown Voltage	TIP106	V _{(BR)CEO}	-80			V	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				-50	μA	V _{CE} =-30V, I _B =0	
	TIP106	I _{CEO}			-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 _C		V			-2.0	V	I _C =-3A, I _B =-6mA	
		V _{CE(sat)}			-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

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. **Micro Commercial Components Corp.** does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp.** and all the companies whose products are represented on our website, harmless against all damages. **Micro Commercial Components Corp.** products are sold subject to the general terms and conditions of commercial sale, as published at

https://www.mccsemi.com/Home/TermsAndConditions.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.