

Features

- · High DC Current Gain
- · Low Collector-Emitter Saturation Voltage
- Complementary to TIP110/111/112
- · 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)

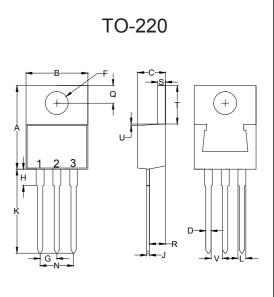
Maximum Ratings @ 25°C Unless Otherwise Specified

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 2.5°C/W Junction to Case

Parameter	Symbol	Rating	Unit	
	TIP115		-60	
Collector-Base Voltage	TIP116	V_{CBO}	-80	V
	TIP117		-100	
Collector-Emitter Voltage	TIP115		-60	
	TIP116	V _{CEO}	-80	V
	TIP117		-100	
Emitter-Base Voltage	V _{EBO}	-5	V	
Continuous Collector C	I _C	-2	Α	
Peak Collector Current	I _{CM}	-4	Α	
Base Current	I _B	-50	mA	
Power Dissipation @TA	P _D	2	W	
Power Dissipation @To	P _D	50	W	

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

PNP Epitaxial Silicon Darlington Transistors



1.BASE 2.COLLECTOR 3.EMITTER

	DIMENSIONS				
DIM INCH		HES MM		IM	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	
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
0 11 1 5 11	TIP115		-60				
Collector-Emitter Breakdown Voltage	TIP116	V _{(BR)CEO}	-80			V	I _C =-30mA, I _B =0
	TIP117		-100				
Collector Cutoff Current	TIP115	I _{CBO}			-1	mA	V _{CB} =-60V, I _E =0
	TIP116						V_{CB} =-80V, I_{E} =0
	TIP117						V _{CB} =-100V, I _E =0
Collector Cutoff Current	TIP115	I _{CEO}			-2	mA	V _{CE} =-30V, I _B =0
	TIP116						V _{CE} =-40V, I _B =0
	TIP117						V _{CE} =-50V, I _B =0
Emitter Cutoff Current		I _{EBO}			-2	mA	V _{EB} =-5V, I _C =0
DC Current Gain		h _{FE(1)}	1000				V_{CE} =-4V, I_{C} =-1A
		h _{FE(2)}	500				V_{CE} =-4V, I_{C} =-2A
Collector-Emitter Saturation Voltage		V _{CE(sat)}			-2.5	V	I _C =-2A, I _B =-8mA
Base-Emitter On Voltage		V _{BE(on)}			-2.8	V	V_{CE} =-4V, I_{C} =-2A
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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