

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)

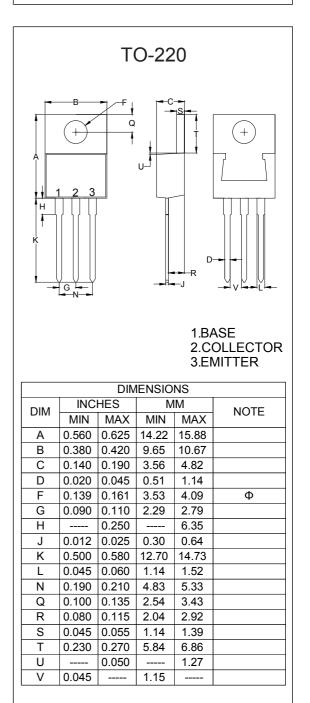
Maximum Ratings @ 25°C Unless Otherwise Specified

- 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	Ι _C	-2	A	
Peak Collector Current	I _{CM}	-4	A	
Base Current	I _B	-50	mA	
Power Dissipation @T _A	P _D	2	W	
Power Dissipation @T _c	P _D	50	W	

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

PNP Epitaxial Silicon Darlington Transistors





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

Parameter		Symbol	Min	Тур	Max	Units	Conditions
Collector-Emitter Breakdown Voltage	TIP115	V _{(BR)CEO}	-60			V	I _C =-30mA, I _B =0
	TIP116		-80				
	TIP117		-100				
Collector Cutoff Current	TIP115	I _{сво}			-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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