

Features

- The Complementary PNP Types are the TIP115/116/117 Respectively
- 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)

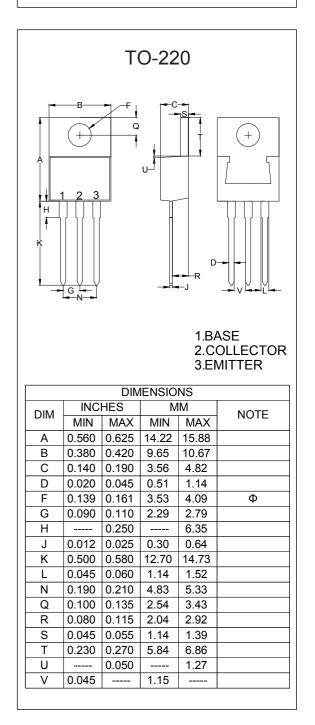
Maximum Ratings @ 25°C Unless Otherwise Specified

- Operating Junction Temperature Range: -65°C to +150°C
- Storage Temperature Range: -65°C to +150°C
- Thermal Resistance: 2.5°C/W Junction to Case

Parameter		Symbol	Rating	Unit
	TIP110		60	
Collector-Base Voltage	TIP111	V _{CBO}	80	V
	TIP112		100	
Collector-Emitter Voltage	TIP110		60	V
	TIP111	V _{CEO}	80	
	TIP112		100	
Emitter-Base Voltage	V _{EBO}	5	V	
Continuous Collector C	I _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.

Silicon NPN Darlington Power Transistor





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

Parameter		Symbol	Min	Тур	Мах	Units	Conditions
Collector-Emitter Breakdown Voltage	TIP110	V _{(BR)CEO}	60			V	
	TIP111		80				I _C =30mA, I _B =0
	TIP112		100				
Collector Cutoff Current	TIP110	I _{сво}			1	mA	V _{CB} =60V, I _E =0
	TIP111						V _{CB} =80V, I _E =0
	TIP112						V _{CB} =100V, I _E =0
Collector Cutoff Current	TIP110	I _{CEO}			2	mA	V _{CE} =30V, I _B =0
	TIP111						V _{CE} =40V, I _B =0
	TIP112						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 Voltage		V _{BE}			2.8	V	V _{CE} =4V, I _C =2A
Output Capacitance		C _{ob}			100	pF	V _{CB} =10V, I _E =0, f=0.1MHz

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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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