



Micro Commercial Components

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TIP125/126/127

Features

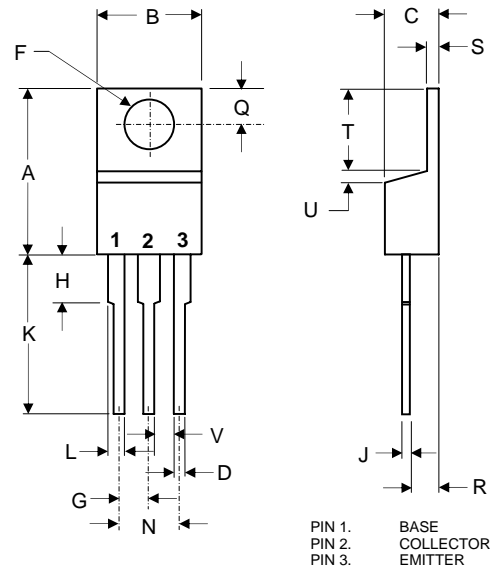
- Mounting Torque: 5 in-lbs Maximum
- The complementary NPN types are the TIP121/2/3 respectively
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking : part number
- Halogen free available upon request by adding suffix "-HF"

Absolute Maximum Ratings @ T_a = 25°C (unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CB0} TIP125 TIP126 TIP127	Collector-base voltage (Open emitter)	-60 -80 -100	V
V _{CE0} TIP125 TIP126 TIP127	Collector-emitter voltage (Open base)	-60 -80 -100	V
V _{EB0}	Emitter-base Voltage(Open collector)	-5	V
I _C	Collector Current	-5	A
I _{CM}	Collector Current Pulse	-8	A
I _B	Base Current	-0.12	A
P _C	Total Device Dissipation(Ta=25°C)	2	W
	Total Device Dissipation(Tc=25°C)	40	W
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature Range	-65 to +150	°C

Silicon PNP Darlington Power Transistors

TO-220



Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
V _{CE(SUS)} TIP125 TIP126 TIP127	Collector-emitter sustaining voltage (I _C =-100mA; I _B =0)	-60 -80 -100		V
V _{CE(sat)}	Collector-emitter Saturation Voltage (I _C =-3A I _B =-0.012A) (I _C =-5A I _B =-0.02A)		-2.0 -4.0	V
V _{BE}	Base-emitter Voltage (I _C =-3A; V _{CE} =-3V)		-2.5	V
I _{CB0} TIP125 TIP126 TIP127	Collector cut-off current (V _{CE} =-60V; I _E =0) (V _{CE} =-80V; I _E =0) (V _{CE} =-100V; I _E =0)	-0.2		mA
I _{CE0} TIP125 TIP126 TIP127	Collector cut-off current (V _{CE} =-30V; V _{EB} =0) (V _{CE} =-40V; V _{EB} =0) (V _{CE} =-50V; V _{EB} =0)	-0.5		mA
I _{EB0}	Emitter cut-off current (V _{EB} =-5V; I _C =0)		-2.0	mA
H _{fe}	DC current gain (I _C =-0.5A; V _{CE} =-3V) (I _C =-3.0A; V _{CE} =-3V)	1000 1000		
C _{OB}	Output capacitance (I _E =0; V _{CB} =-10V, f=0.1MHz)		300	PF

DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.560	.625	14.22	15.88	
B	.380	.420	9.65	10.67	
C	.140	.190	3.56	4.82	
D	.020	.045	0.51	1.14	
F	.139	.161	3.53	4.09	∅
G	.190	.110	2.29	2.79	
H	---	.250	---	6.35	
J	.012	.025	0.30	0.64	
K	.500	.580	12.70	14.73	
L	.045	.060	1.14	1.52	
N	.190	.210	4.83	5.33	
Q	.100	.135	2.54	3.43	
R	.080	.115	2.04	2.92	
S	.045	.055	1.14	1.39	
T	.230	.270	5.84	6.86	
U	----	.050	----	1.27	
V	.045	----	1.15	----	

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



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Ordering Information :

Device	Packing
Part Number-BP	Bulk; 1Kpcs/Box

Note : Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

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