



Micro Commercial Components



Micro Commercial Components
130 W Cochran St, Unit B
Simi Valley, CA 93065
Tel:818-701-4933

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 @ $T_a = 25^\circ\text{C}$ (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 ($T_a=25^\circ\text{C}$)	2	W
	Total Device Dissipation ($T_c=25^\circ\text{C}$)	40	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{STG}	Storage Temperature Range	-65 to +150	$^\circ\text{C}$

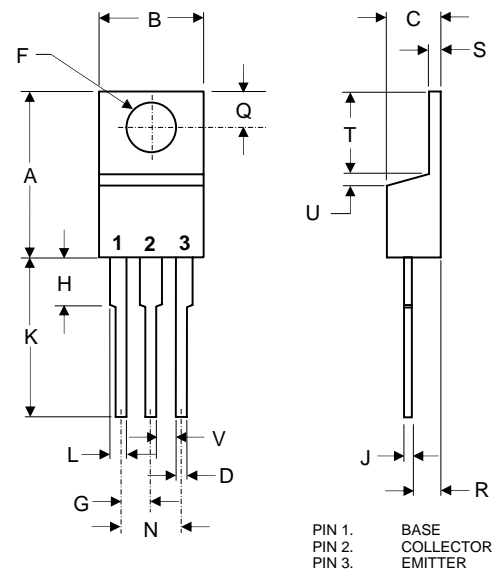
Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
$V_{CE0(SUS)}$ TIP125 TIP126 TIP127	Collector-emitter sustaining voltage ($I_C=-100\text{mA}$; $I_B=0$)	-60 -80 -100		V
$V_{CE(sat)}$	Collector-emitter Saturation Voltage ($I_C=-3\text{A}$ $I_B=-0.012\text{A}$) ($I_C=-5\text{A}$ $I_B=-0.02\text{A}$)		-2.0 -4.0	V
V_{BE}	Base-emitter Voltage ($I_C=-3\text{A}$; $V_{CE}=-3\text{V}$)		-2.5	V
I_{CBO} TIP125 TIP126 TIP127	Collector cut-off current ($V_{CB}=-60\text{V}$; $I_E=0$) ($V_{CB}=-80\text{V}$; $I_E=0$) ($V_{CB}=-100\text{V}$; $I_E=0$)		-0.2	mA
I_{CEO} TIP125 TIP126 TIP127	Collector cut-off current ($V_{CE}=-30\text{V}$; $V_{EB}=0$) ($V_{CE}=-40\text{V}$; $V_{EB}=0$) ($V_{CE}=-50\text{V}$; $V_{EB}=0$)		-0.5	mA
I_{EBO}	Emitter cut-off current ($V_{EB}=-5\text{V}$; $I_C=0$)		-2.0	mA
H_{fe}	DC current gain ($I_C=-0.5\text{A}$; $V_{CE}=-3\text{V}$) ($I_C=-3.0\text{A}$; $V_{CE}=-3\text{V}$)	1000 1000		
C_{OB}	Output capacitance ($I_E=0$; $V_{CB}=-10\text{V}$; $f=0.1\text{MHz}$)		300	PF

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

Silicon PNP Darlington Power Transistors

TO-220



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
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	Ø
G	.190	.110	2.29	2.79	
H	---	.157	---	4.00	
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	----	

Ordering Information :

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

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.

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.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Micro Commercial Components \(MCC\):](#)

[TIP125-BP](#) [TIP126-BP](#) [TIP127-BP](#)