Micro Commercial Components
20736 Marilla Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

TIP125/126/127

Silicon PNP Darlington Power Transistors

Features

- TO-220 package
- The complementary NPN types are the TIP121/2/3 respectively
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Marking : Part Number

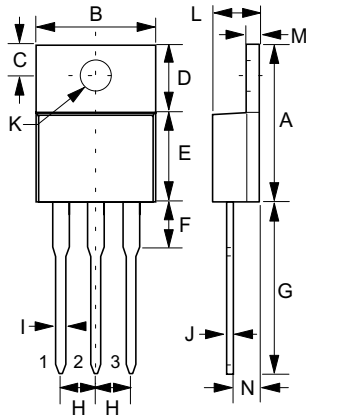
Absolute Maximum Ratings @ T_a = 25℃(unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{CBO} TIP125 TIP126 TIP127	Collector-base voltage (Open emitter)	 -60 -80 -100	V
V_{CEO} TIP125 TIP126 TIP127	Collector-emitter voltage (Open base)	 -60 -80 -100	V
V_{EBO}	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℃)	2	W
	Total Device Dissipation(Tc=25℃)	40	W
T_J	Junction Temperature	150	℃
T_{STG}	Storage Temperature Range	-65 to +150	℃

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
$V_{CEO(SUS)}$ 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_{CBO} TIP125 TIP126 TIP127	Collector cut-off current (V_{CB}=-60V, I_E=0) (V_{CB}=-80V, I_E=0) (V_{CB}=-100V, I_E=0)	-0.2		mA
I_{CEO} 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_{EBO}	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

TO-220



PIN 1. BASE
PIN 2. COLLECTOR
PIN 3. EMITTER

DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.560	.625	14.22	15.88	
B	.380	.420	9.65	10.67	
C	.100	.135	2.54	3.43	
D	.230	.270	5.84	6.86	
E	.335	.368	8.50	9.35	
F	------	.250	------	6.35	
G	.500	.580	12.70	14.73	
H	.090	.110	2.29	2.79	
I	.020	.045	0.51	1.14	
J	.012	.025	0.30	0.64	
K	.139	.161	3.53	4.09	∅
L	.140	.190	3.56	4.83	
M	.045	.055	1.14	1.40	
N	.080	.115	2.03	2.92	

Micro Commercial Components

IMPORTANT NOTICE
Micro Commercial Components Corp. reserve 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.
APPLICATIONS DISCLAIMER
Products offer by *Micro Commercial Components Corp*. are not intended for use in Medical, Aerospace or Military Applications.