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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Micro Commercial Components

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# TIP41/41A/41B/41C

## Features

- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- The complementary PNP types are the TIP42 respectively
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking : Part Number
- Mounting Torque: 5 in-lbs Maximum

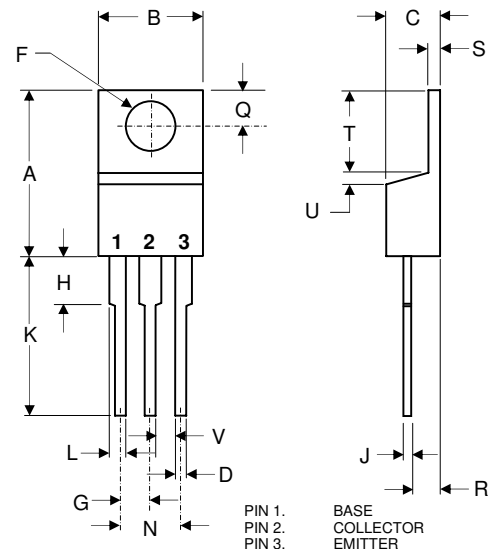
## Silicon NPN

## Power Transistors

### Absolute Maximum Ratings @ T<sub>a</sub> = 25°C (unless otherwise noted)

Symbol	Parameter	Value	Unit
V <sub>CB0</sub> TIP41 TIP41A TIP41B TIP41C	Collector-base voltage (Open emitter)	40 60 80 100	V
V <sub>CE0</sub> TIP41 TIP41A TIP41B TIP41C	Collector-emitter voltage (Open base)	40 60 80 100	V
V <sub>EB0</sub>	Emitter-base Voltage (Open collector)	5	V
I <sub>C</sub>	Collector Current	6	A
I <sub>CM</sub>	Collector Current Pulse	10	A
I <sub>B</sub>	Base Current	2	A
P <sub>C</sub>	Total Device Dissipation (T <sub>a</sub> =25°C)	2	W
	Total Device Dissipation (T <sub>c</sub> =25°C)	65	W
T <sub>J</sub>	Junction Temperature	150	°C
T <sub>STG</sub>	Storage Temperature Range	-65 to +150	°C

## TO-220



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	∅
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	---	

### Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
V <sub>CE0(SUS)</sub> TIP41 TIP41A TIP41B TIP41C	Collector-emitter sustaining voltage (I <sub>C</sub> =30mA; I <sub>B</sub> =0)	40 60 80 100		V
V <sub>CE(sat)</sub>	Collector-emitter Saturation Voltage (I <sub>C</sub> =6A; I <sub>B</sub> =0.6A)		1.5	V
V <sub>BE</sub>	Base-emitter Voltage (I <sub>C</sub> =6A; V <sub>CE</sub> =4V)		2.0	V
I <sub>CES</sub> TIP41 TIP41A TIP41B TIP41C	Collector cut-off current (V <sub>CE</sub> =40V; V <sub>EB</sub> =0) (V <sub>CE</sub> =60V; V <sub>EB</sub> =0) (V <sub>CE</sub> =80V; V <sub>EB</sub> =0) (V <sub>CE</sub> =100V; V <sub>EB</sub> =0)	0.4		mA
I <sub>CEO</sub> TIP41/41A TIP41B/C	Collector cut-off current (V <sub>CE</sub> =30V; V <sub>EB</sub> =0) (V <sub>CE</sub> =60V; V <sub>EB</sub> =0)	0.7		mA
I <sub>EBO</sub>	Emitter cut-off current (V <sub>EB</sub> =5V; I <sub>C</sub> =0)		1.0	mA
h <sub>FE</sub>	DC current gain (I <sub>C</sub> =0.3A; V <sub>CE</sub> =4V) (I <sub>C</sub> =3A; V <sub>CE</sub> =4V)	30 15	75	
f <sub>T</sub>	Transition frequency (I <sub>C</sub> =0.5A; V <sub>CE</sub> =10V)	3		MHZ

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



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### Ordering Information :

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

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

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