Micro Commercial Components

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TIP41/41A/41B/41C

Silicon NPN Power Transistors

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- The complementary PNP types are the TIP42 respectively
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Marking : Part Number

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

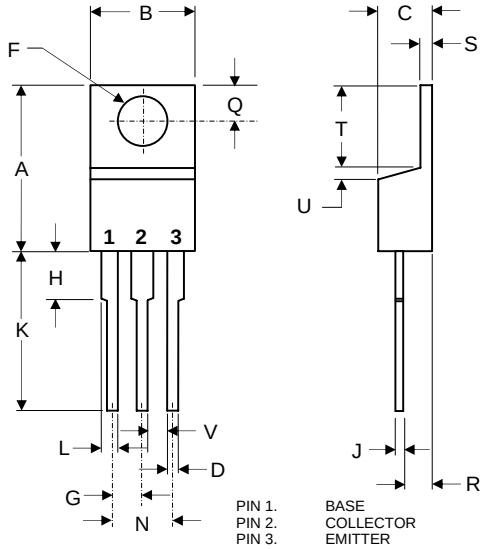
Symbol	Parameter	Value	Unit
V_{CBO} TIP41 TIP41A TIP41B TIP41C	Collector-base voltage (Open emitter)	40 60 80 100	V
V_{CEO} TIP41 TIP41A TIP41B TIP41C	Collector-emitter voltage (Open base)	40 60 80 100	V
V_{EBO}	Emitter-base Voltage (Open collector)	5	V
I_C	Collector Current	6	A
I_{CM}	Collector Current Pulse	10	A
I_B	Base Current	2	A
P_C	Total Device Dissipation(Ta=25℃)	2	W
	Total Device Dissipation(Tc=25℃)	65	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
$V_{CEO(SUS)}$ TIP41 TIP41A TIP41B TIP41C	Collector-emitter sustaining voltage (I_C=30mA; I_B=0)	40 60 80 100		V
$V_{CE(sat)}$	Collector-emitter Saturation Voltage (I_C=6A I_B=0.6A)		1.5	V
V_{BE}	Base-emitter Voltage (I_C=6A ; V_{CE}=4V)		2.0	V
I_{CES} TIP41 TIP41A TIP41B TIP41C	Collector cut-off current (V_{CE}=40V; V_{EB}=0) (V_{CE}=60V; V_{EB}=0) (V_{CE}=80V; V_{EB}=0) (V_{CE}=100V; V_{EB}=0)	0.4		mA
I_{CEO} TIP41/41A TIP41B/C	Collector cut-off current (V_{CE}=30V; V_{EB}=0) (V_{CE}=60V; V_{EB}=0)	0.7		mA
I_{EBO}	Emitter cut-off current (V_{EB}=5V; I_C=0)		1.0	mA
hfe	DC current gain (I_C=0.3A ; V_{CE}=4V) (I_C=3A ; V_{CE}=4V)	30 15	75	
f_T	Transition frequency (I_C=0.5A ; V_{CE}=10V)	3		MHZ

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

TO-220



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
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	---	.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	-----	

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Ordering Information

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

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