

**Micro Commercial Components** 

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## TIP41/41A/41B/41C

- 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

- Moisure Sensitivity Level 1
- Marking: Part Number

### Absolute Maximum Ratings @ $T_a = 25^{\circ}$ (unless otherwise noted)

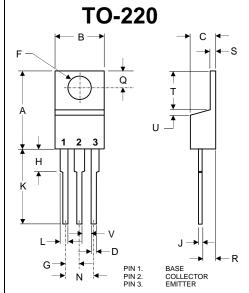
Symbol	Parameter	Value	Unit
V <sub>CBO</sub> TIP41 TIP41A TIP41B TIP41C	Collector-base voltage (Open emitter)	40 60 80 100	V
V <sub>CEO</sub> TIP41 TIP41A TIP41B TIP41C	Collector-emitter voltage (Open base)	40 60 80 100	V
V <sub>EBO</sub>	Emitter-base Voltage (Open collector)	5	V
Ic	Collector Current	6	Α
I <sub>CM</sub>	Collector Current Pulse	10	Α
I <sub>B</sub>	Base Current	2	Α
Pc	Total Device Dissipation(Ta=25°C)	2	W
	Total Device Dissipation(Tc=25°C)	65	W
TJ	Junction Temperature	150	°C
T <sub>STG</sub>	Storage Temperature Range	-65 to +150	°C

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

Symbol	Parameter	Min	Max	Units
V <sub>CEO(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 ( $I_C=6AI_B=0.6A$ )		1.5	V
$V_{BE}$	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 $(V_{CE}=40V; V_{EB}=0)$ $(V_{CE}=60V; V_{EB}=0)$ $(V_{CE}=80V; V_{EB}=0)$ $(V_{CE}=100V; V_{EB}=0)$	0.4		mA
I <sub>CEO</sub> TIP41/41A TIP41B/C	Collector cut-off current $(V_{CE}=30V; V_{EB}=0)$ $(V_{CE}=60V; V_{EB}=0)$	0.7		mA
I <sub>EBO</sub>	Emitter cut-off current $(V_{EB}=5V; I_{C}=0)$		1.0	mA
hfe	DC current gain ( $I_C$ =0.3A; $V_C$ =4V) ( $I_C$ =3A; $V_C$ =4V)	30 15	75	
f⊤	Transition frequency ( $I_C=0.5A$ ; $V_{CE}=10V$ )			MHZ

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

# Silicon NPN **Power Transistors**



DIMENSIONS					
	INC	INCHES MM		MN	
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.560	.625	14.22	15.88	
В	.380	.420	9.65	10.67	
С	.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	
Н		.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		, and the second

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### **Ordering Information:**

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

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