



Micro Commercial Components

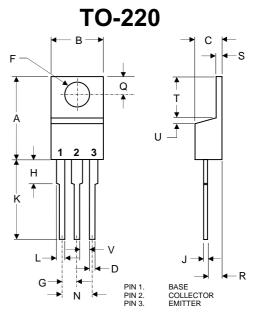
Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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TIP41/41A/41B/41C

Silicon NPN

Power Transistors



DIMENSIONS							
	INCHES		MM				
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			
Т	.230	.270	5.84	6.86			
U		.050		1.27			
V	.045		1.15				

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

- Moisure Sensitivity Level 1
- Marking : Part Number Mounting Torgue: 5 in-lbs Maximum

Absolute Maximum Ratings @ $T_a = 25^{\circ}$ (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	Α
I _{CM}	Collector Current Pulse	10	Α
I _B	Base Current	2	Α
В	Total Device Dissipation(Ta=25°C)	2	W
P _C	Total Device Dissipation(Tc=25°C)	65	W
TJ	Junction Temperature	150	$^{\circ}\mathbb{C}$
T _{STG}	Storage Temperature Range	-65 to +150	$^{\circ}\mathbb{C}$

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 ($I_C=6AI_B=0.6A$)		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.

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Ordering Information:

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

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

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