

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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TIP32/32A/32B/32C

Features

- Halogen free available upon request by adding suffix "-HF"
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 Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
 The complementary NPN types are the TIP31 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°C (unless otherwise noted)

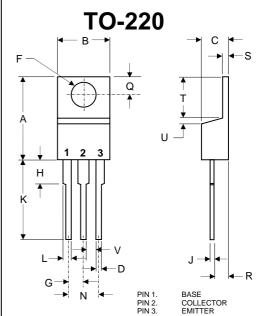
Symbol	Parameter	Value	Unit
V _{CBO} TIP32 TIP32A TIP32B TIP32C	Collector-base voltage (Open emitter)	-40 -60 -80 -100	V
V _{CEO} TIP32 TIP32A TIP32B TIP32C	Collector-emitter voltage (Open base)	-40 -60 -80 -100	V
V_{EBO}	Emitter-base Voltage (Open collector)	-5	V
Ic	Collector Current	-3	Α
I _{CM}	Collector Current Pulse	-5	Α
I _B	Base Current	-1	Α
D.	Total Device Dissipation(Ta=25°C)	2	W
Pc	Total Device Dissipation(Tc=25°C)	40	W
TJ	Junction Temperature	150	$^{\circ}$ 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)} TIP32 TIP32A TIP32B TIP32C	Collector-emitter sustaining voltage (I _C =-30mA; I _B =0)	-40 -60 -80 -100		٧
V _{CE(sat)}	Collector-emitter Saturation Voltage (I_C =-3A I_B =-0.375A)		-1.2	V
V_{BE}	Base-emitter Voltage (I _C =-3A; V _{CE} =-4V)		-1.8	V
I _{CES} TIP32 TIP32A TIP32B TIP32C	Collector cut-off current $(V_{CE}=-40V; V_{EB}=0)$ $(V_{CE}=-60V; V_{EB}=0)$ $(V_{CE}=-80V; V_{EB}=0)$ $(V_{CE}=-100V; V_{EB}=0)$		-0.2	mA
I _{CEO} TIP32/32A TIP32B/C	Collector cut-off current $(-V_{CE}=30V; V_{EB}=0)$ $(-V_{CE}=60V; V_{EB}=0)$		mA	
I _{EBO}	Emitter cut-off current (-V _{EB} =5V; I _C =0)		mA	
Hfe	DC current gain (I_{C} =-1A; V_{CE} =-4V) (I_{C} =-3A; V_{CE} =-4V)	25 10	50	
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.

Silicon PNP **Power Transistors**



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	DIMENSIONS						
	INC	HES	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				



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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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