

TO-220-3L Plastic-Encapsulate Transistors

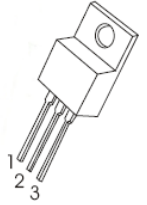
TIP32/32A/32B/32C TRANSISTOR (PNP)

FEATURES

Medium Power Linear Switching Applications

TO-220-3L

1. BASE
2. COLLECTOR
3. EMITTER



MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

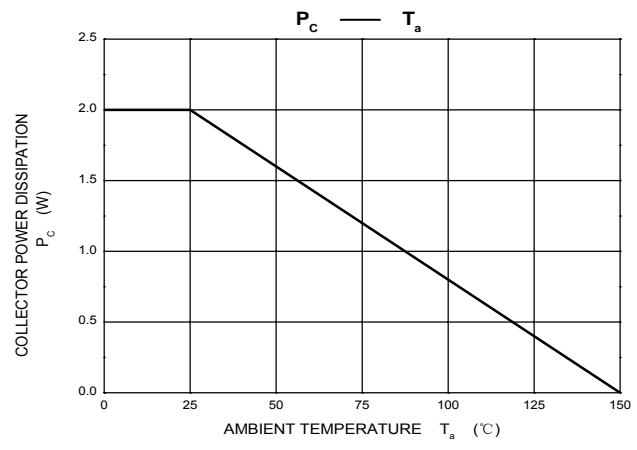
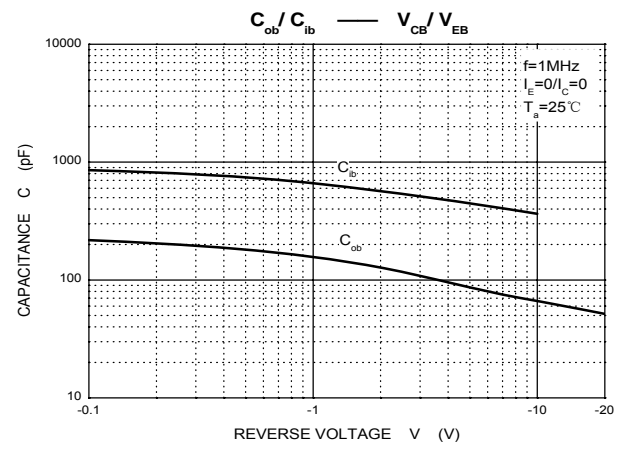
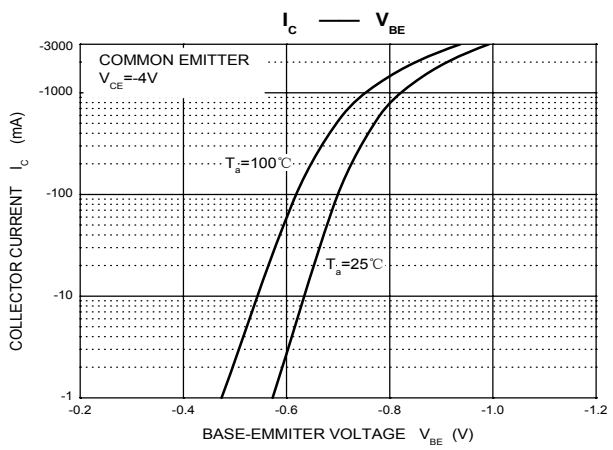
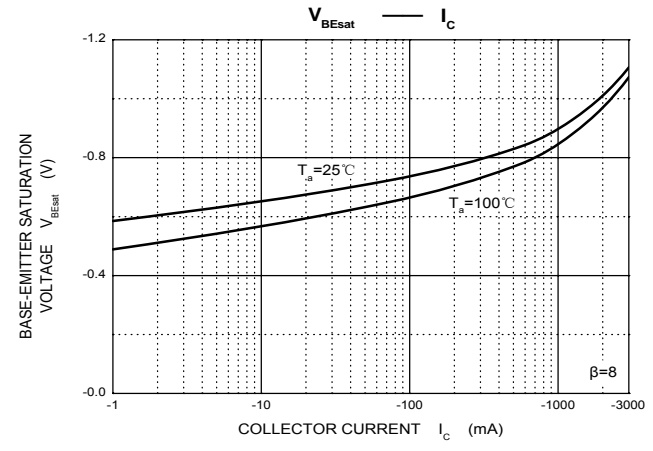
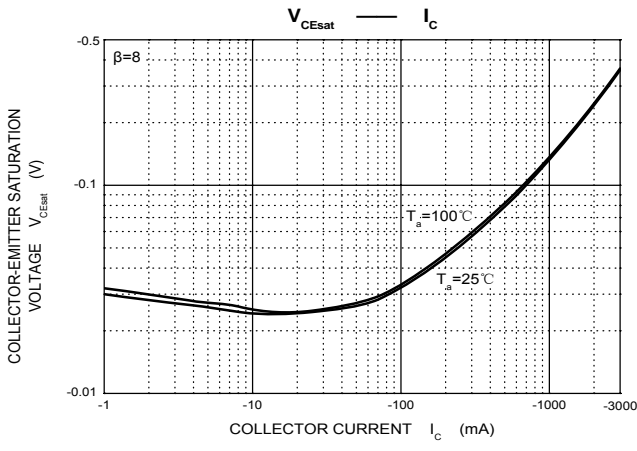
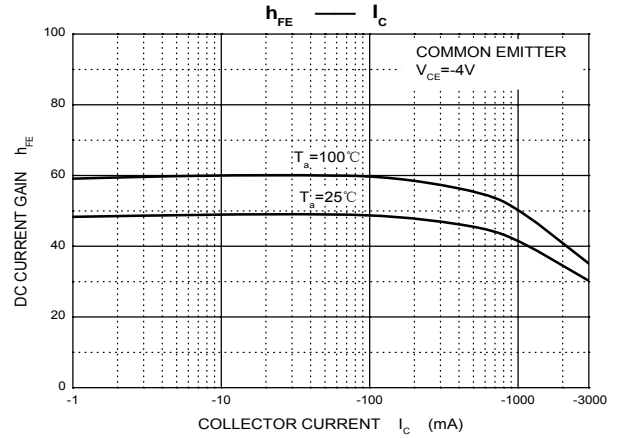
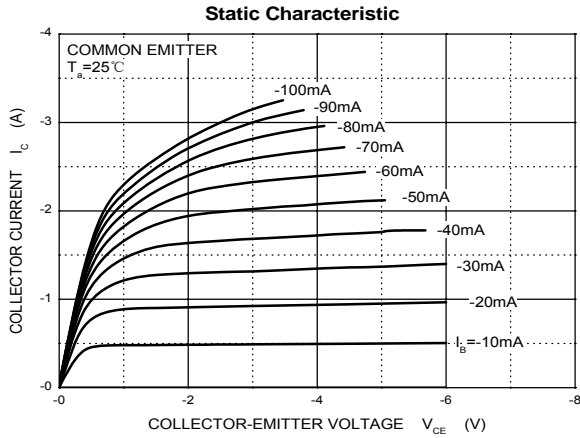
Symbol	Parameter	TIP32	TIP32A	TIP32B	TIP32C	Unit
V _{CB0}	Collector-Base Voltage	-40	-60	-80	-100	V
V _{CEO}	Collector-Emitter Voltage	-40	-60	-80	-100	V
V _{EBO}	Emitter-Base Voltage	-5				V
I _C	Collector Current	-3				A
P _C	Collector Power Dissipation	2				W
R _{θJA}	Thermal Resistance from Junction to Ambient	62.5				
T _j	Junction Temperature	150				°C
T _{stg}	Storage Temperature	-55~+150				°C

ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

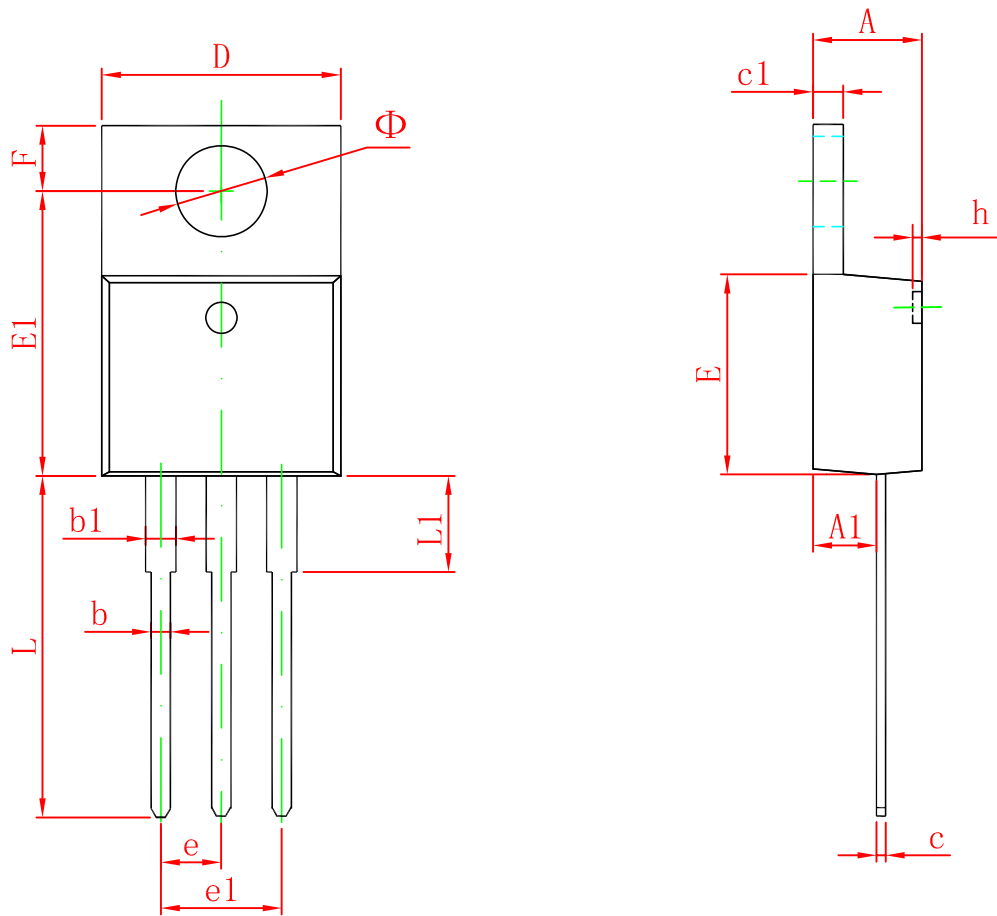
Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage TIP32 TIP32A TIP32B TIP32C	V _{(BR)CBO}	I _C = -1mA, I _E =0	-40 -60 -80 -100		V
Collector-emitter breakdown voltage * TIP32 TIP32A TIP32B TIP32C	V _{CEO(sus)}	I _C = -30mA, I _B =0	-40 -60 -80 -100		V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = -1mA, I _C =0	-5		V
Collector cut-off current TIP32 TIP32A TIP32B TIP32C	I _{CBO}	V _{CB} =-40V, I _E =0 V _{CB} =-60V, I _E =0 V _{CB} =-80V, I _E =0 V _{CB} =-100V, I _E =0		-200	μA
Collector cut-off current TIP32/32A TIP32B/32C	I _{CEO}	V _{CE} = -30V, I _B = 0 V _{CE} = -60V, I _B = 0		-0.3	mA
Emitter cut-off current	I _{EBO}	V _{EB} =-5V, I _C =0		-1	mA
DC current gain	h _{FE(1)}	V _{CE} = -4V, I _C =-1A	25		
	h _{FE(2)}	V _{CE} =-4 V, I _C =-3A	15	75	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-3A, I _B =-0.375A		-1.2	V
Base-emitter voltage	V _{BE(on)}	V _{CE} =-4V, I _C =-3A		-1.8	V
Transition frequency	f _T	V _{CE} =-10V, I _C =-0.5A	3		MHz

* Pulse Test: PW≤300μs, Duty Cycle≤2%.

Typical Characteristics TIP32/32A/32B/32C



TO-220-3L Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	4.470	4.670	0.176	0.184
A1	2.520	2.820	0.099	0.111
b	0.710	0.910	0.028	0.036
b1	1.170	1.370	0.046	0.054
c	0.310	0.530	0.012	0.021
c1	1.170	1.370	0.046	0.054
D	10.010	10.310	0.394	0.406
E	8.500	8.900	0.335	0.350
E1	12.060	12.460	0.475	0.491
e	2.540 TYP		0.100 TYP	
e1	4.980	5.180	0.196	0.204
F	2.590	2.890	0.102	0.114
h	0.000	0.300	0.000	0.012
L	13.400	13.800	0.528	0.543
L1	3.560	3.960	0.140	0.156
Φ	3.735	3.935	0.147	0.155

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Bipolar Transistors - BJT category](#):

Click to view products by [Changjiang manufacturer](#):

Other Similar products are found below :

[619691C](#) [MCH4017-TL-H](#) [MMBT-2369-TR](#) [BC546/116](#) [BC557/116](#) [BSW67A](#) [NJVMJD148T4G](#) [NTE123AP-10](#) [NTE153MCP](#) [NTE16](#)
[NTE195A](#) [NTE92](#) [C4460](#) [2N4401-A](#) [2N6728](#) [2SA1419T-TD-H](#) [2SA2126-E](#) [2SB1204S-TL-E](#) [2SC2712S-GR,LF](#) [2SC5488A-TL-H](#)
[2SD2150T100R](#) [SP000011176](#) [2N2907A](#) [2N3904-NS](#) [2N5769](#) [2SC2412KT146S](#) [2SD1816S-TL-E](#) [CPH6501-TL-E](#) [MCH4021-TL-E](#)
[MJE340](#) [US6T6TR](#) [NJL0281DG](#) [732314D](#) [CPH3121-TL-E](#) [CPH6021-TL-H](#) [873787E](#) [IMZ2AT108](#) [UMX21NTR](#) [MCH6102-TL-E](#)
[NJL0302DG](#) [2N3583](#) [30A02MH-TL-E](#) [NSV40301MZ4T1G](#) [NTE13](#) [NTE26](#) [NTE282](#) [NTE323](#) [NTE350](#) [NTE81](#) [STX83003-AP](#)