



Micro Commercial Components



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TIP122L

NPN Plastic-Encapsulate Transistors

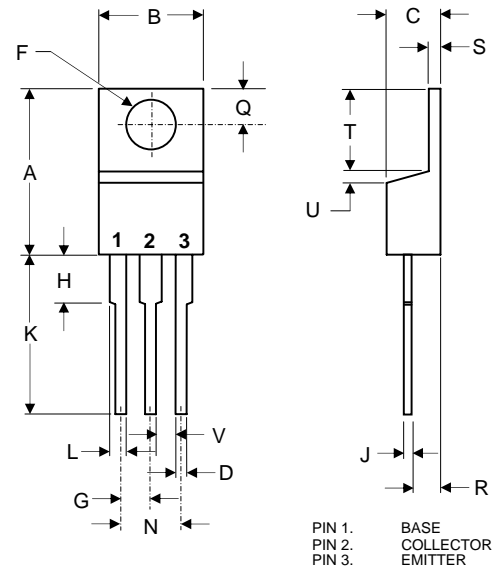
Features

- Medium Power Complementary Silicon Transistors
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

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

Symbol	Parameter	Value	Unit
V _{CB0}	Collector-base voltage	100	V
V _{CEO}	Collector-emitter voltage	100	V
V _{EBO}	Emitter-base Voltage	5	V
I _C	Collector Current	5	A
P _C	Collector Power Dissipation	2	W
R _{thJA}	Thermal Resistance Junction to Ambient	62.5	°C/W
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature Range	-55 to +150	°C

TO-220



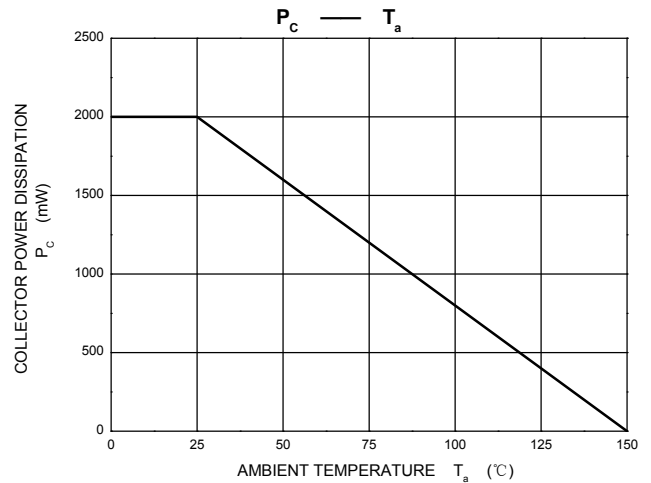
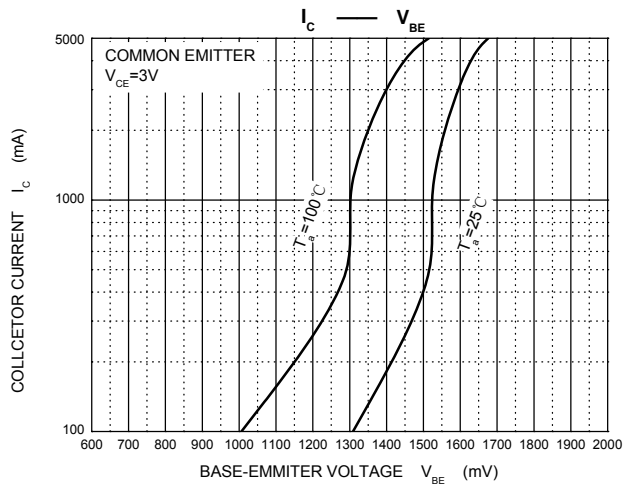
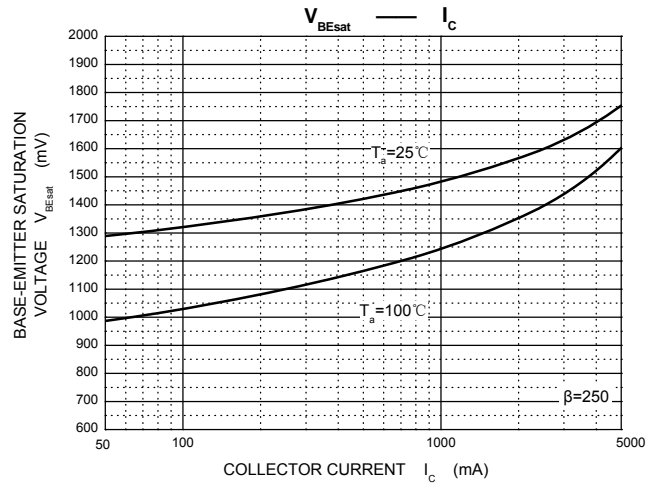
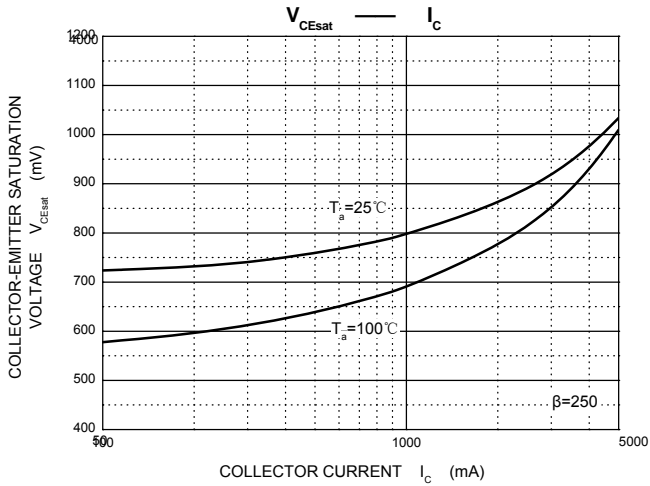
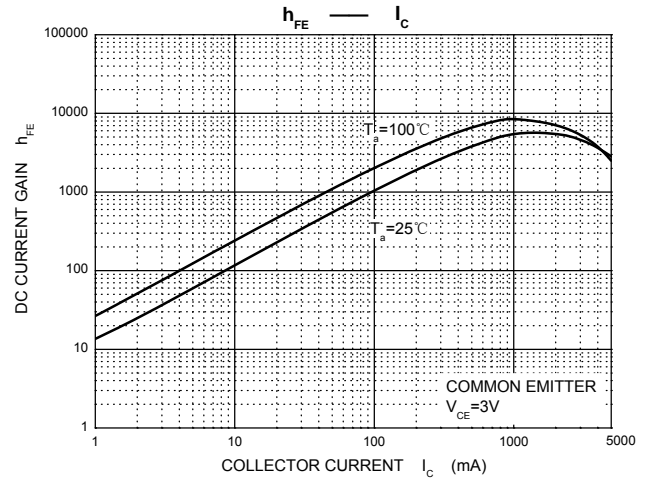
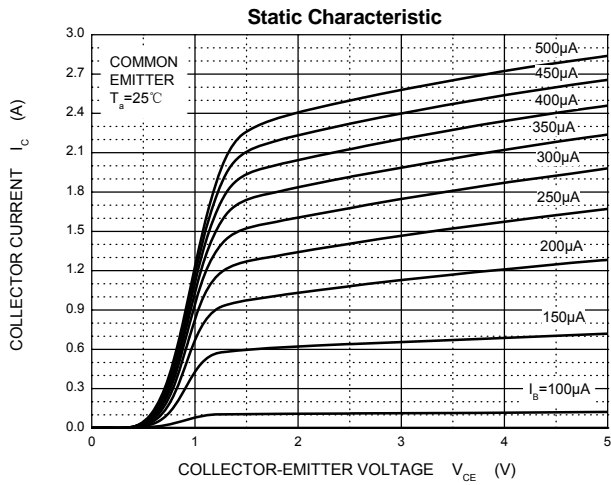
ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-Base Breakdown Voltage	V _{(BR)CBO}	I _C =1mA, I _E =0	100		V
Collector-Emitter Breakdown Voltage	V _{CEO(SUS)}	I _C =30mA, I _B =0	100		V
Collector cut-off current	I _{CB0}	V _{CB} =100V, I _E =0		0.2	mA
Collector cut-off current	I _{CEO}	V _{CE} =50V, I _E =0		0.5	mA
Emitter cut-off current	I _{EBO}	V _{EB} =5V, I _C =0		2	mA
DC current gain	h _{FE (1)}	V _{CE} =3V, I _C =0.5A	1000		
	h _{FE (2)}	V _{CE} =3V, I _C =3A	1000		
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C =3A, I _B =12mA		2	V
		I _C =5A, I _B =20mA		4	
Base-Emitter Voltage	V _{BE}	V _{CE} =3V, I _C =3A		2.5	V
Collector output capacitance	C _{ob}	V _{CB} =10V, I _E =0, f=1MHz		200	pF

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
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	∅
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	-----	

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

Typical Characteristics





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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