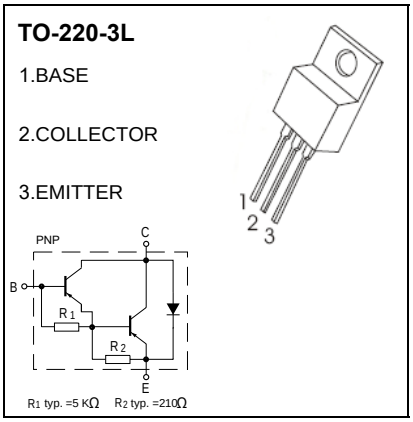
SZCJ

Shenzhen Changji Semiconductor Co., LTD.

TO-220-3L Plastic-Encapsulate Transistors

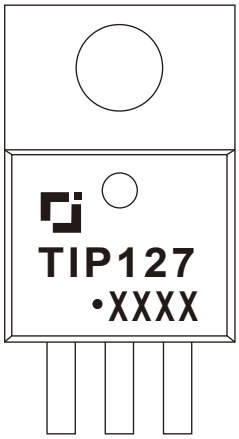
TIP127 DARLINGTON TRANSISTOR (PNP)



FEATURES

- Medium Power Complementary Silicon Transistors

MARKING



TIP127=Device code
Solid dot=Green moldinn compound device,
if none,the normal device
XXXX=Code

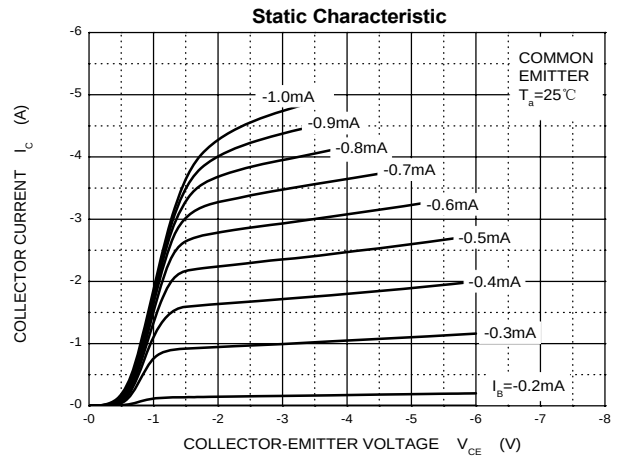
MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

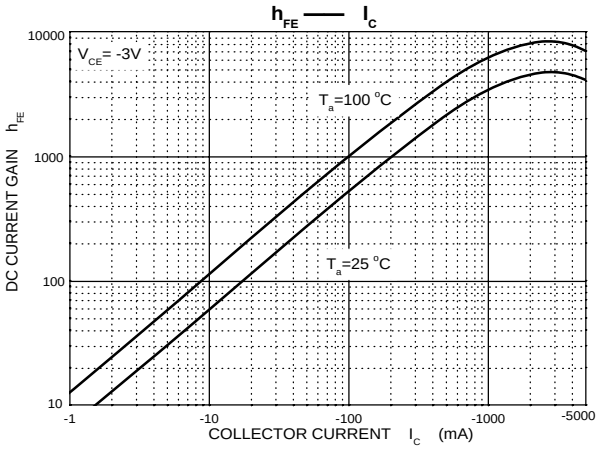
Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	-100	V
V_{CEO}	Collector-Emitter Voltage	-100	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current -Continuous	-5	A
P_C	Collector Power Dissipation	2	W
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	62.5	℃/W
$R_{\theta JC}$	Thermal Resistance, Junction to Case	1.92	℃/W
T_J,T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	℃

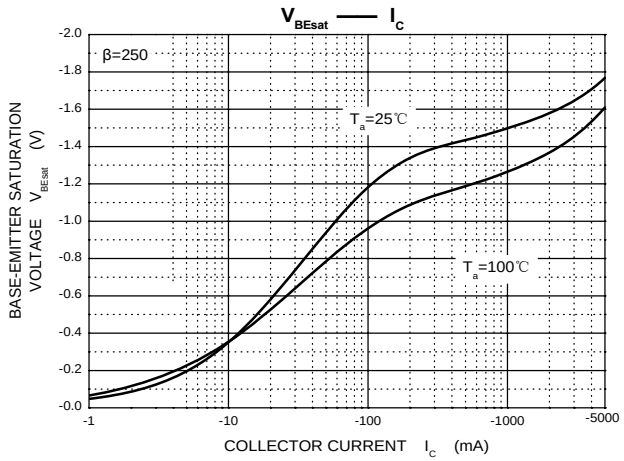
ELECTRICAL CHARACTERISTICS (T_a=25℃ unless otherwise specified)

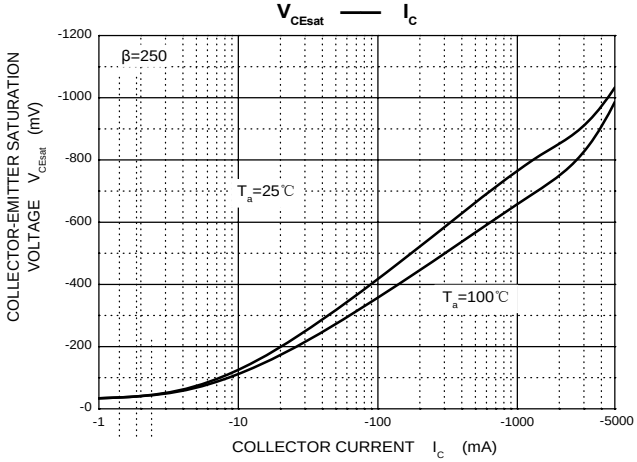
Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	I_C= -1mA,I_E=0	-100		V
Collector-emitter breakdown voltage	$V_{CEO(SUS)}$	I_C= -30mA,I_B=0	-100		V
Collector cut-off current	I_{CBO}	V_{CB}=-100V, I_E=0		-0.2	mA
Collector cut-off current	I_{CEO}	V_{CE}=-50 V, I_B=0		-0.5	mA
Emitter cut-off current	I_{EBO}	V_{EB}=-5 V, 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=-3 A	1000	12000	
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C=-3A,I_B=-12mA I_C=-5 A,I_B=-20mA		-2 -4	V
Base-emitter voltage	V_{BE}	V_{CE}= -3V, I_C=-3 A		-2.5	V
Output Capacitance	C_{ob}	V_{CB}=-10V, I_E=0,f=0.1MHz		300	pF

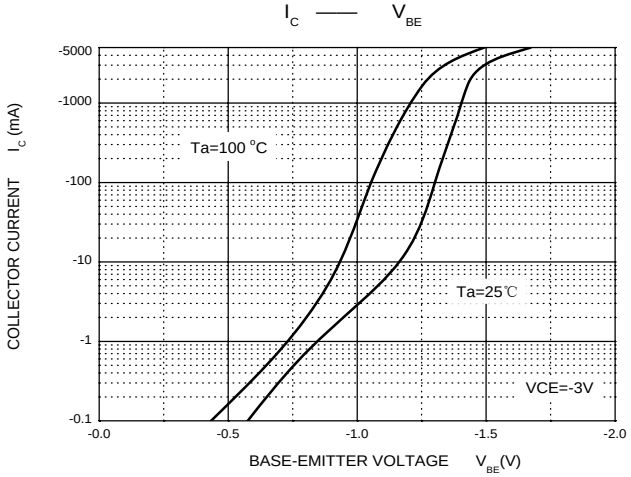
Typical Characteristics

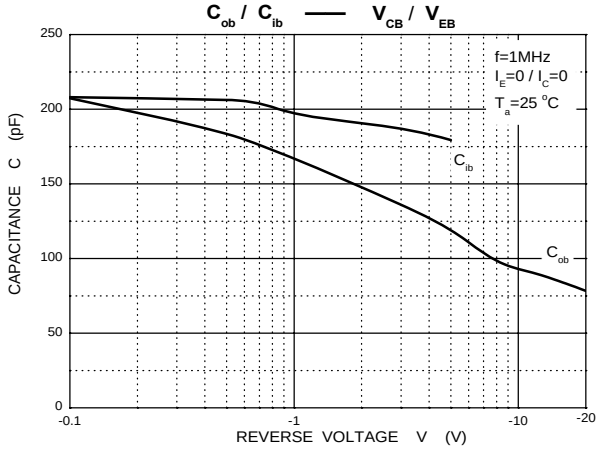


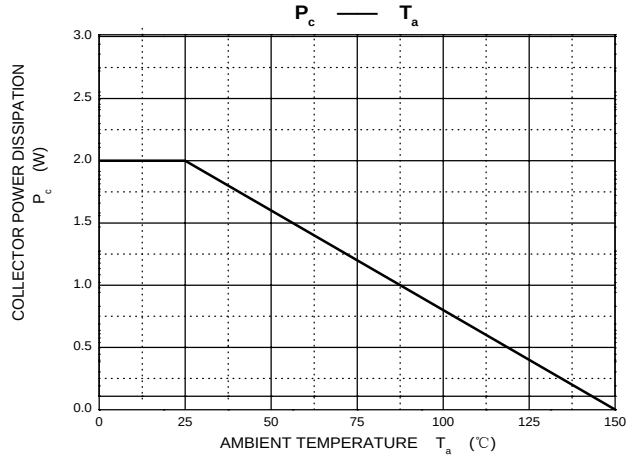




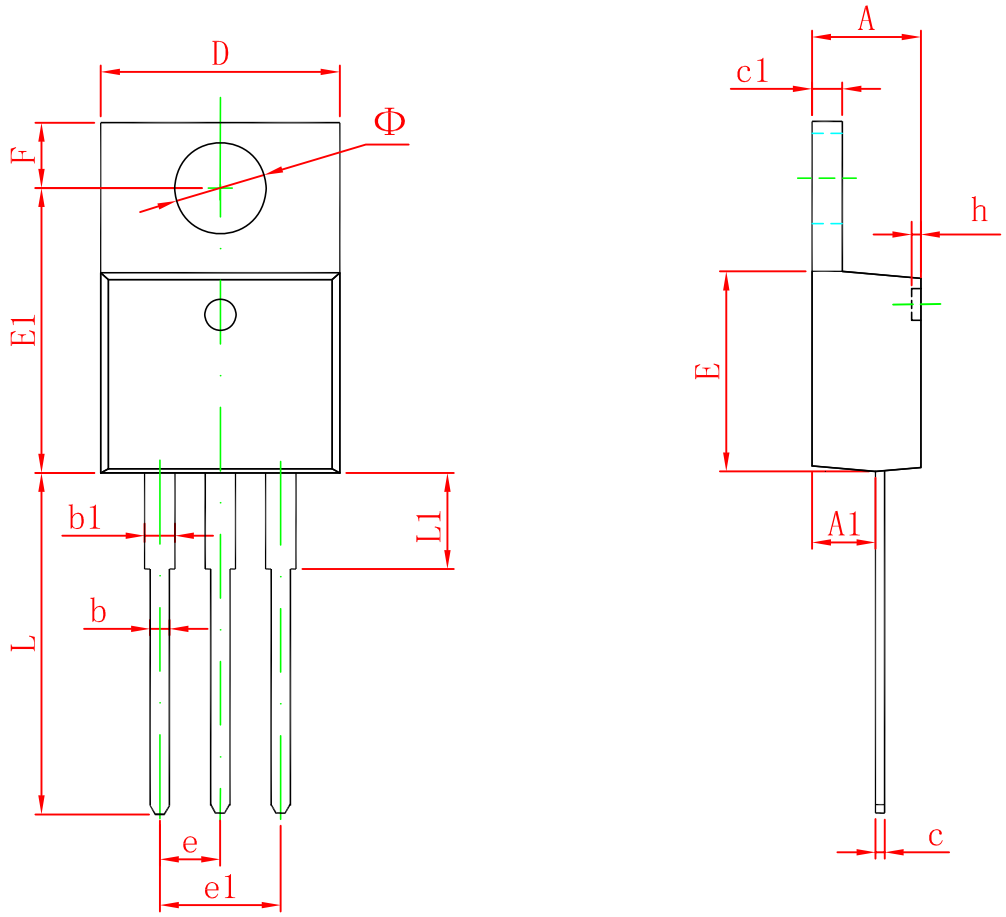








TO-220-3L Package Outline Dimensions



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