

TIP127

TO-220 Plastic-Encapsulate Transistors

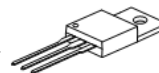
TIP127 Darlington TRANSISTOR (PNP)

TO-220

1.BASE.

2.COLLECTOR.

3.EMITTER.



FEATURES

- Medium Power Complementary Silicon Transistors

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

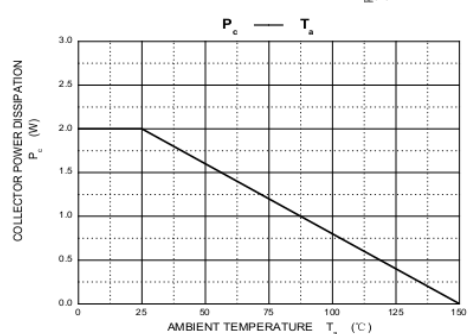
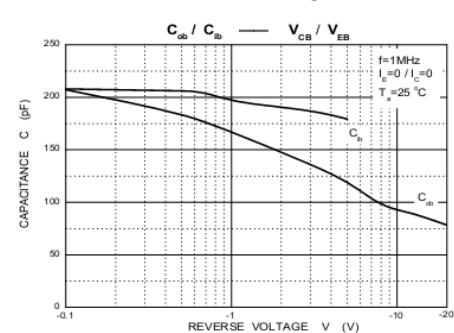
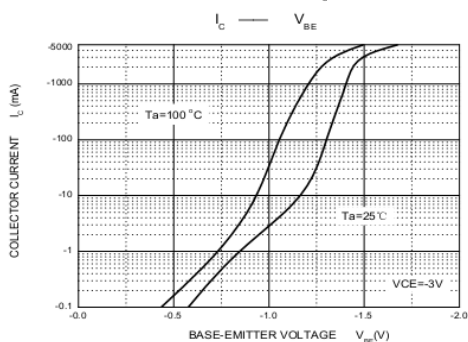
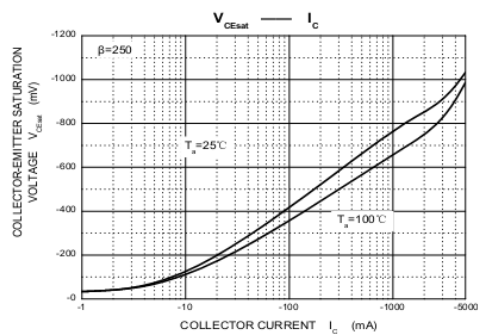
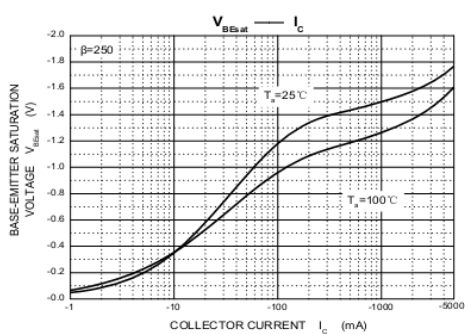
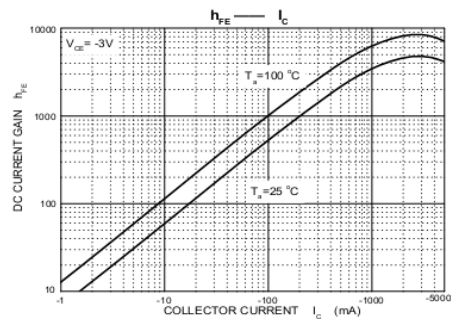
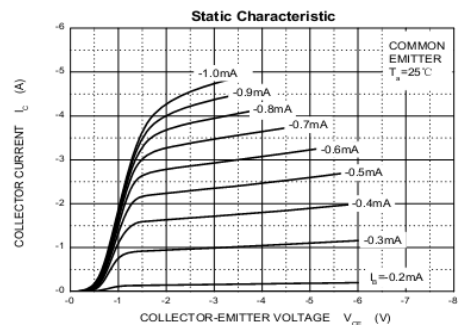
Symbol	Parameter	TIP122	Unit
		TIP127	
VCBO	Collector-Base Voltage	100	V
VCEO	Collector-Emitter Voltage	100	V
VEBO	Emitter-Base Voltage	5	V
IC	Collector Current -Continuous	5	A
PC	Collector Power Dissipation	2	W
R6JA	Thermal Resistance From Junction To Ambient	62.5	°C/W
R6JC	Thermal Resistance Junction to Case	1.92	°C/W
TJ	Junction Temperature	150	°C
Tstg	Storage Temperature Range	-55to+150	°C

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

Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	V(BR)CBO	IC=1mA,IE=0	100		V
Collector-emitter breakdown voltage	V(BR)CEO	IC=30mA,IB=0	100		V
Collector cut-off current	ICBO	VCB=100V,IE =0		0.2	mA
Collector cut-off current	ICEO	VCE=50V,IE =0		0.5	mA
Emitter cut-off current	IEBO	VEB=5V,IC=0		2	mA
DC current gain	hFE(1)	VCE=3V,IC=0.5A	1000		
	hFE(2)	VCE=3V,IC=3A	1000		
Collector-emitter saturation voltage	VCE(sat)	IC=3A,IB=12mA		2	V
		IC=5A,IB=20mA		4	
Base-emitter voltage	VBE	VCE=3V,IC=3A		2.5	V
Collector output capacitanceTIP127 TIP122	Cob	VCB=10V,I =0, f=0.1MHz		300 200	PF

Typical Characteristics

TIP127



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TO-220 Package Outline Dimensions

UNIT: mm

