



TIP127

主要参数 MAIN CHARACTERISTICS

I_C	-5A
V_{CEO}	-100V
$P_C(TO-220C)$	65W
$P_C(DPAK)$	40W

用途

- 发动机点火
- 高频开关电源
- 高频功率变换
- 一般功率放大电路

APPLICATIONS

- Engine ignition
- High frequency switching power supply
- High frequency power transform
- Commonly power amplifier circuit

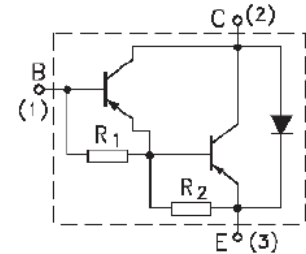
产品特性

- 与 TIP122 互补
- 高电流容量
- 高开关速度
- 高可靠性
- 环保 (RoHS) 产品

FEATURES

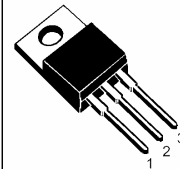
- Complementary to TIP122
- High current capability
- High switching speed
- High reliability
- RoHS product

封装 Package

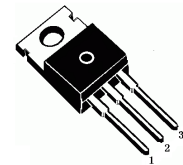


$$R1 \cong 8k\Omega$$

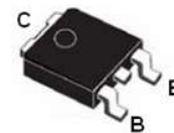
$$R2 \cong 0.12k\Omega$$



TO-220



TO-220C



DPAK

订货信息 ORDER MESSAGE

订货型号 Order codes				印 记 Marking	封 装 Package
有卤-条管 Halogen-Tube	无卤-条管 Halogen Free-Tube	有卤-编带 Halogen-Reel	无卤-编带 Halogen Free-Reel		
TIP127 - C -B	N/A	N/A	N/A	TIP127	TO-220C
TIP127 - Z -B	N/A	N/A	N/A	TIP127	TO-220
TIP127 - R -B	N/A	N/A	N/A	TIP127	DPAK



**绝对最大额定值 ABSOLUTE RATINGS (Tc=25℃)**

项 目 Parameter	符 号 Symbol	数 值 Value	单 位 Unit
集电极—发射极直流电压 Collector- Emitter Voltage (V _{BE} =0)	V _{CES}	-100	V
集电极—发射极直流电压 Collector- Emitter Voltage (I _B =0)	V _{CEO}	-100	V
发射极—基极直流电压 Emitter-Base Voltage	V _{EBO}	-5	V
最大集电极直流电流 Collector Current (DC)	I _C	-5	A
最大集电极脉冲电流 Collector Current (pulse)	I _{CP}	-8	A
最大基极直流电流 Base Current (DC)	I _B	-120	mA
最大集电极耗散功率 Total Dissipation (TO-220C)	P _C	65	W
最大集电极耗散功率 Total Dissipation (DPAK)	P _C	40	W
最高结温 Junction Temperature	T _J	150	℃
贮存温度 Storage Temperature	T _{stg}	-55~+150	℃

电特性 ELECTRICAL CHARACTERISTIC

项 目 Parameter	测试条件 Tests conditions	最小值 Value(min)	典型值 Value(typ)	最大值 Value(max)	单 位 Unit
V(BR) _{CEO}	I _C =-10mA, I _B =0	-100	-	-	V
V(BR) _{CBO}	I _C =-1mA, I _E =0	-100	-	-	V
I _{CBO}	V _{CB} =-100V, I _E =0	-	-	-0.2	mA
I _{CEO}	V _{CE} =-50V, I _B =0	-	-	-0.5	mA
I _{EBO}	V _{EB} =-5V, I _C =0	-	-	-2	mA
Hfe(1)	V _{CE} =-3V, I _C =-500mA	1000	-	-	
Hfe(2)	V _{CE} =-3V, I _C =-3A	1000	-	-	
V _{CE(sat)} (1)	I _C =-3A, I _B =-12mA	-	-	-2.0	V
V _{CE(sat)} (2)	I _C =-5A, I _B =-20mA	-	-	-4.0	V
V _{BE(sat)}	I _C =-3A, I _B =-12mA	-	-	-2.5	V

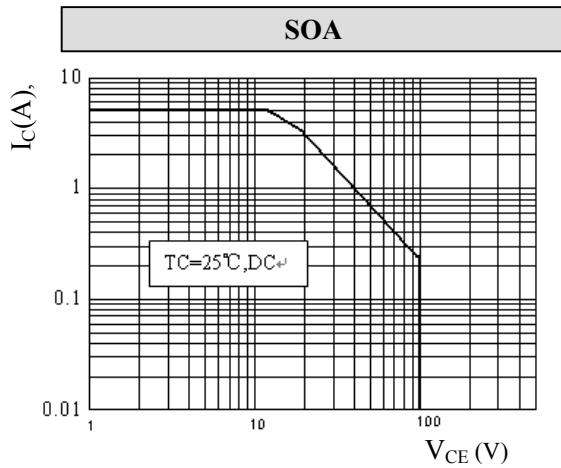
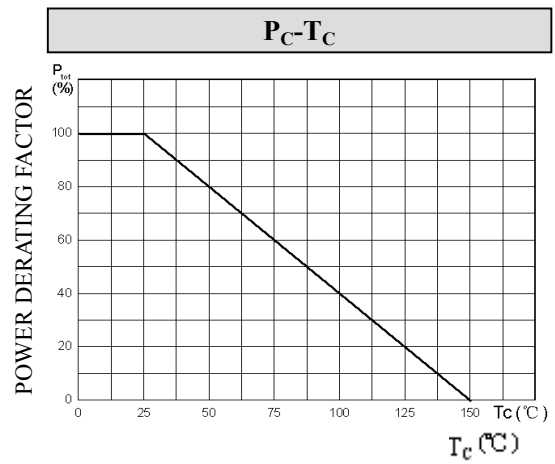
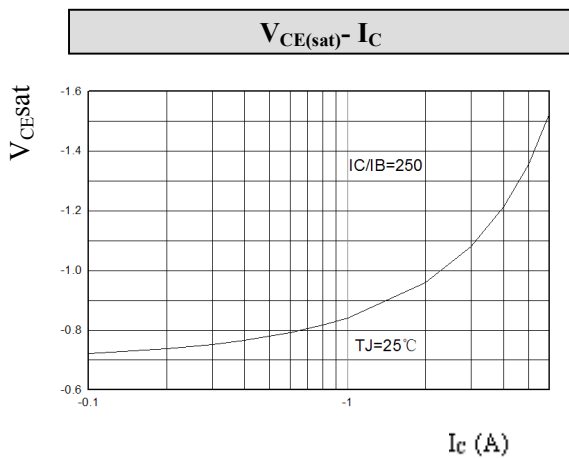
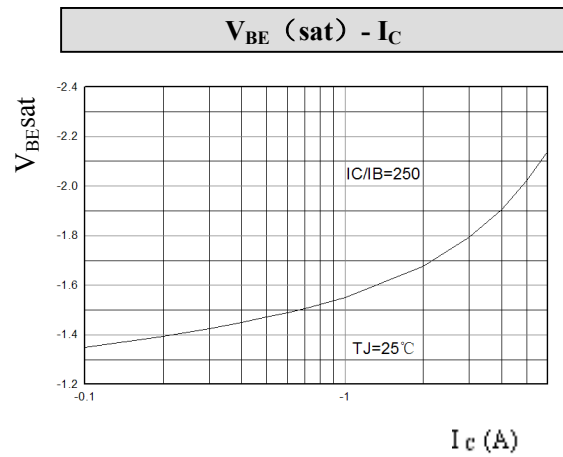
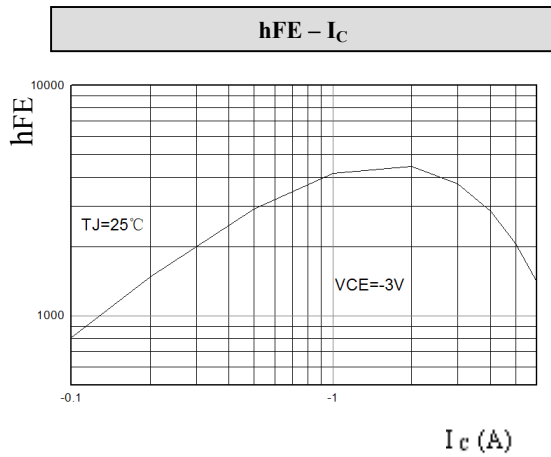
热特性 THERMAL CHARACTERISTIC

项 目 Parameter	符 号 Symbol	最小值 Value(min)	最大值 Value(max)	单 位 Unit
结到管壳的热阻 TO-220 (C) Thermal Resistance Junction Case TO-220 (C)	Rth(j-c)	-	1.923	℃/W
结到管壳的热阻 DPAK Thermal Resistance Junction Case DPAK	Rth(j-c)	-	3.125	℃/W





特征曲线 ELECTRICAL CHARACTERISTICS (curves)

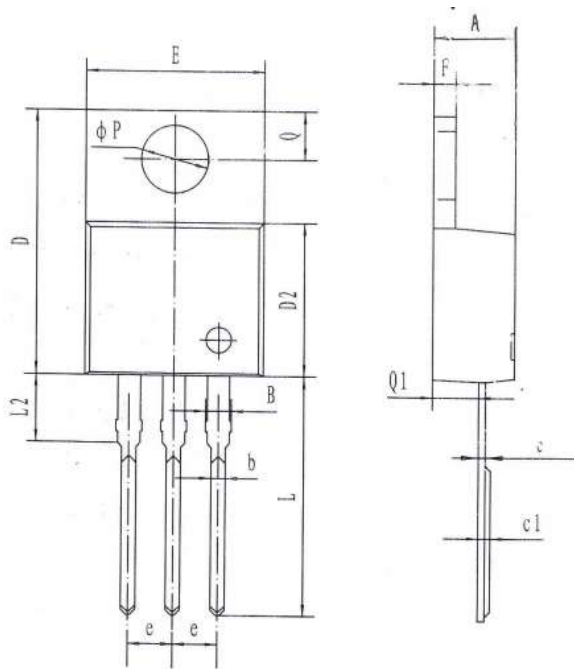




外形尺寸 PACKAGE MECHANICAL DATA

TO-220

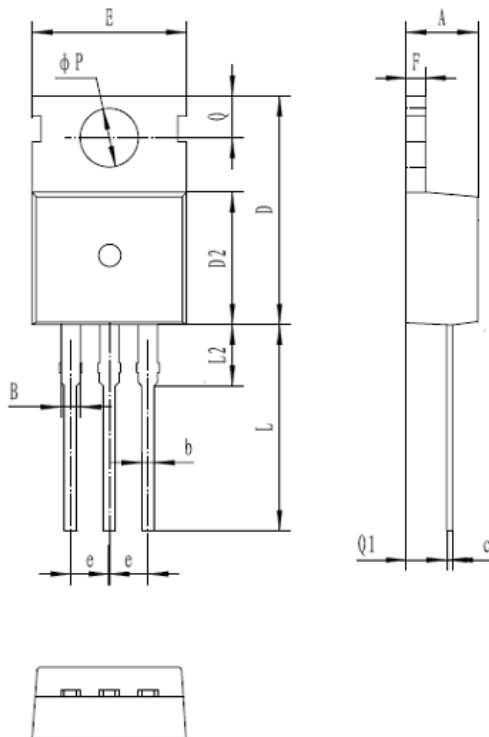
单位 Unit : mm



符号	尺寸 (mm)
A	4.40-4.80
B	1.10-1.40
b	0.70-0.95
c	0.28-0.48
c1	0.32-0.52
D	14.45-16.00
D2	8.20-9.20
E	9.60-10.40
e	2.39-2.69
F	1.20-1.35
L	13.05-14.05
L2	3.70-3.90
P	3.50-4.00
Q	2.40-3.00
Q1	2.20-2.90

TO-220C

单位 Unit : mm



符号	尺寸 (mm)
A	4.30-4.70
B	1.10-1.40
b	0.70-0.95
c	0.40-0.65
D	15.20-16.20
D2	9.00-9.40
E	9.70-10.10
e	2.39-2.69
F	1.25-1.40
L	12.60-13.60
L2	2.80-3.20
P	3.50-3.80
Q	2.60-3.00
Q1	2.20-2.60

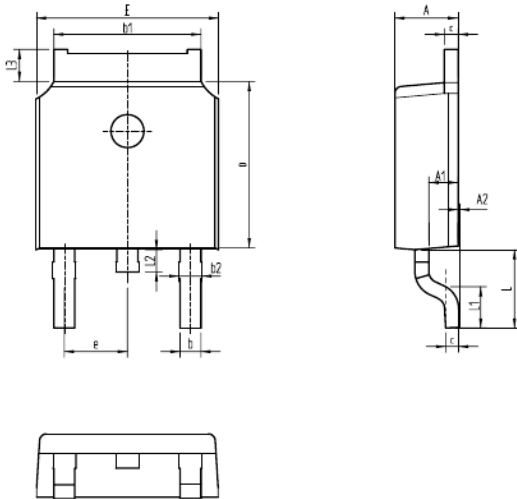




外形尺寸 PACKAGE MECHANICAL DATA

DPAK

单位 Unit : mm



符号	尺寸 (mm)
A	2.16-2.41
A1	0.97-1.17
A2	0.00-0.15
b	0.63-0.93
b1	5.13-5.53
b2	0.66-0.96
c	0.40-0.60
D	5.80-6.40
E	6.30-6.90
e	2.286BSC
L	2.50-3.30
L1	1.20-1.80
L2	0.60-1.00
L3	0.85-1.30



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