



TIP122

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

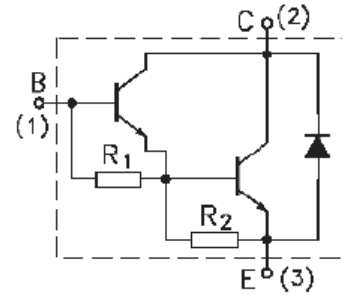
产品特性

- 与 TIP127 互补
- 高电流容量
- 高开关速度
- 高可靠性
- 环保 (RoHS) 产品

FEATURES

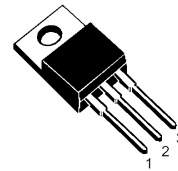
- Complementary to TIP127
- High current capability
- High switching speed
- High reliability
- RoHS product

封装 Package

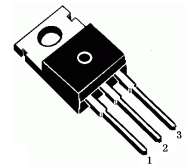


$$R1 \cong 8k\Omega$$

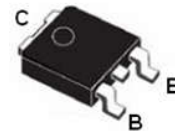
$$R2 \cong 0.12k\Omega$$



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		
TIP122 - C -B	N/A	N/A	N/A	TIP122	TO-220C
TIP122 - Z -B	N/A	N/A	N/A	TIP122	TO-220
TIP122 - R -B	N/A	N/A	N/A	TIP122	DPAK



绝对最大额定值 ABSOLUTE RATINGS ($T_c=25^{\circ}\text{C}$)

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	$^{\circ}\text{C}$
贮存温度 Storage Temperature	T_{stg}	-55~+150	$^{\circ}\text{C}$

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
$V_{(BR)CEO}$	$I_C=10\text{Ma}, I_B=0$	100	-	-	V
$V_{(BR)CBO}$	$I_C=1\text{Ma}, I_E=0$	100	-	-	V
I_{CBO}	$V_{CB}=100\text{V}, I_E=0$	-	-	0.2	mA
I_{CEO}	$V_{CE}=50\text{V}, I_B=0$	-	-	0.5	mA
I_{EBO}	$V_{EB}=5\text{V}, I_C=0$	-	-	2	mA
Hfe(1)	$V_{CE}=3\text{V}, I_C=500\text{mA}$	1000	-	-	
Hfe(2)	$V_{CE}=3\text{V}, I_C=3\text{A}$	1000	-	-	
$V_{CE(sat)}(1)$	$I_C=3\text{A}, I_B=12\text{mA}$	-	-	2.0	V
$V_{CE(sat)}(2)$	$I_C=5\text{A}, I_B=20\text{mA}$	-	-	4.0	V
$V_{BE(sat)}$	$I_C=3\text{A}, I_B=12\text{mA}$	-	-	2.5	V

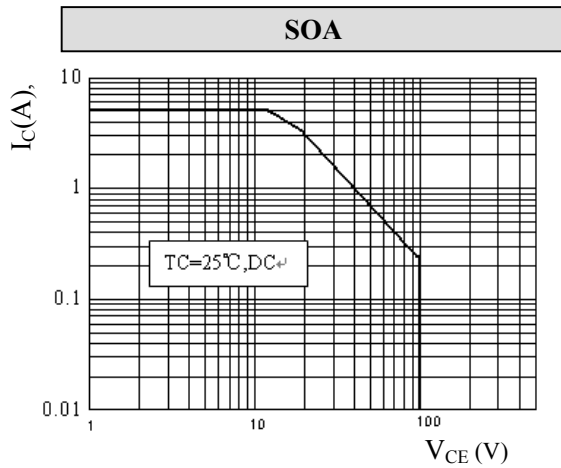
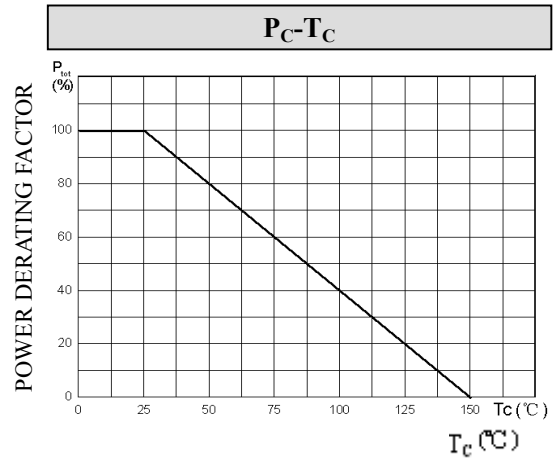
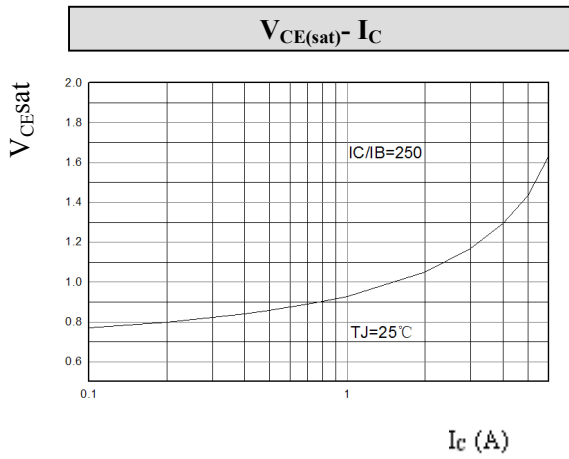
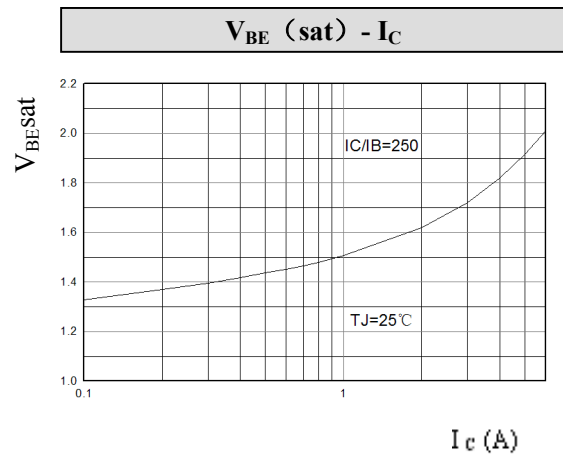
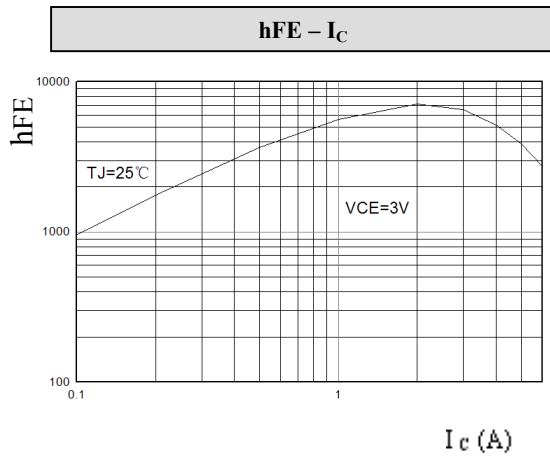
热特性 THERMAL CHARACTERISTIC

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	$^{\circ}\text{C/W}$
结到管壳的热阻 DPAK Thermal Resistance Junction Case DPAK	Rth(j-c)	-	3.125	$^{\circ}\text{C/W}$





特征曲线 ELECTRICAL CHARACTERISTICS (curves)

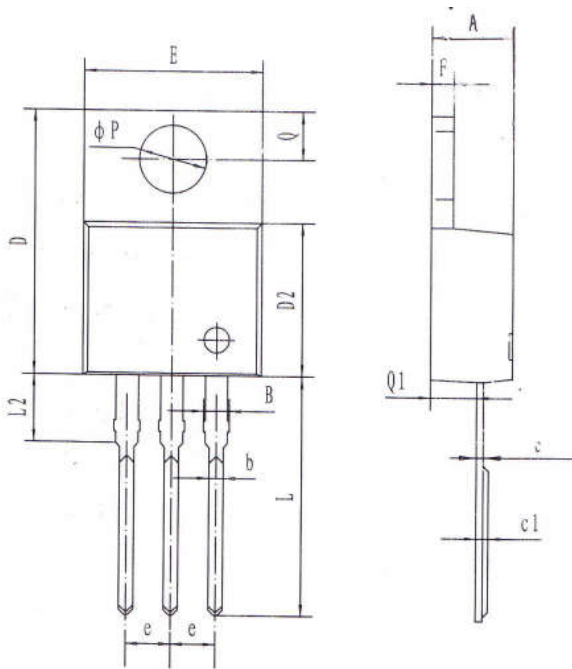




外形尺寸 PACKAGE MECHANICAL DATA

TO-220

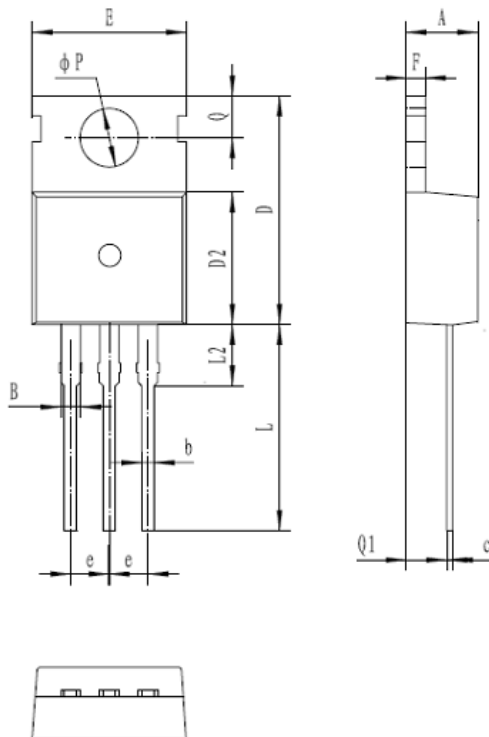
单位 Unit : mm



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



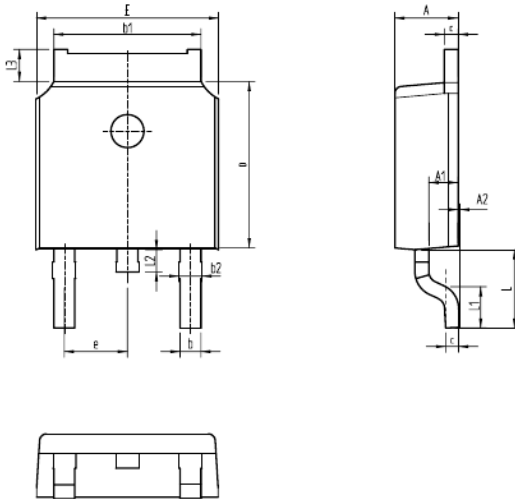
符号	尺寸 (mm)
A	4.30-4.70
B	1.10-1.40
b	0.70-0.95
c	0.40-0.65
D	15.20-16.20
D2	9.00-9.40
E	9.70-10.10
e	2.39-2.69
F	1.25-1.40
L	12.60-13.60
L2	2.80-3.20
P	3.50-3.80
Q	2.60-3.00
Q1	2.20-2.60





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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3. Please do not exceed the absolute maximum ratings of the device when circuit designing.
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