TIP36C

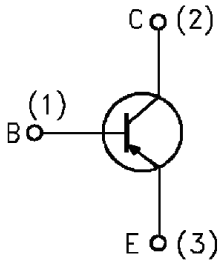
用途
- 应用音频放大
- 通用

APPLICATIONS
- Audio amplifier
- General purpose

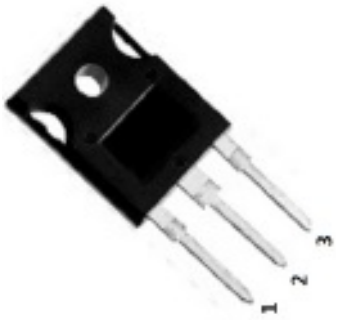
产品特性
- 高集电极电压：V_{CEO}=100V (min)
- 低饱和压降
- 与 TIP35C 互补
- 环保（RoHS）产品

FEATURES
- High collector voltage：V_{CEO}=100V (min)
- Low collector-emitter saturation voltage
- Complementary to TIP35C
- RoHS product

封装 Package



TO-247S



1. 基极 BASE
2. 集电极（热沉）
   COLLECTOR (HEAT SINK)
3. 发射极 EMITTER

订货信息 ORDER MESSAGE

订 货 型 号 Order codes	印 记 Marking	无卤素 Halogen Free	封 装 Package	包 装 Packaging	器件重量 Weight
TIP36C	TIP36C	否 NO	TO-247S	条管 Tube	6.00g(typ)

绝对最大额定值 ABSOLUTE RATINGS (Tc=25℃ unless otherwise noted)

项 目 Parameter		符 号 Symbol	数 值 Value	单 位 Unit
集电极—基极直流电压	Collector- Base Voltage	V_{CBO}	-100	V
集电极—发射极直流电压	Collector- Emitter Voltage	V_{CEO}	-100	V
发射极—基极直流电压	Emitter-Base Voltage	V_{EBO}	-5	V
最大集电极电流	Collector Current	I_C	-25	A
最大基极电流	Base Current	I_B	-5	A
最大集电极耗散功率	Collector Dissipation(Tc=25℃)	P_C	125	W
最高结温	Junction Temperature	T_j	150	℃
贮存温度	Storage Temperature	T_{stg}	-65~150	℃

电特性 ELECTRICAL CHARACTERISTIC

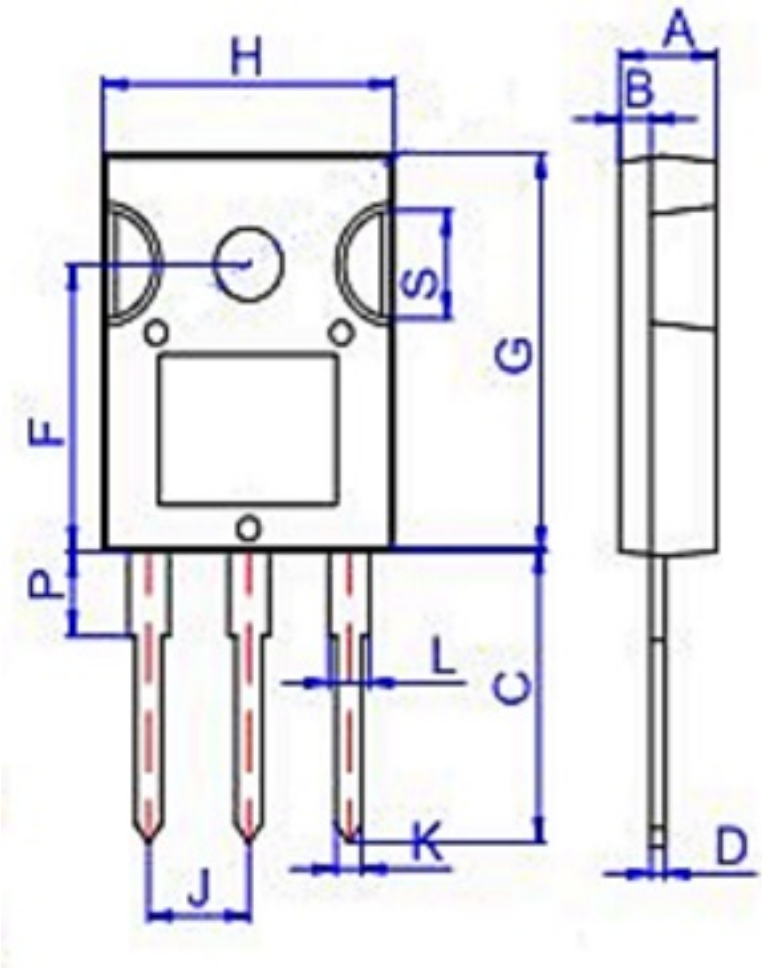
项　　目 Parameter	测试条件 Tests conditions	最小值 Value(min)	典型值 Value(typ)	最大值 Value(max)	单位 Unit
I_{CEO}	V_{CE}=-60V,I_B=0	-	-	-1	mA
I_{EBO}	V_{EB}=-5V,I_C=0	-	-	-1	mA
I_{CES}	V_{CE}=-100V, V_{BE}=0	-	-	-0.7	mA
$V_{CEO(SUS)}$	Ic=-30mA,I_B=0	-100	-	-	V
$V_{CE(sat)}$	I_C=-15.0A,I_B=-1.5A	-	-	-1.8	V
$V_{BE(ON)}$	V_{CE}=-4V,I_C=-15.0A	-	-	-2.0	V
hFE	V_{CE}=-4V,I_C=-1.5A	25	-	-	-
	V_{CE}=-4V,I_C=-15A	10	-	50	-
f_T	V_{CE}=-10V, Ic=-1.0A	3	-	-	MHz

热特性 THERMAL CHARACTERISTIC

项　　目 Parameter	符　号 Symbo	最小值 min	最大值 max	单　位 Unit
结到管壳的热阻 Thermal Resistance Junction Case　TO-247S	$R_{th(j-c)}$	-	1.0	℃/W

外形尺寸 PACKAGE MECHANICAL DATA

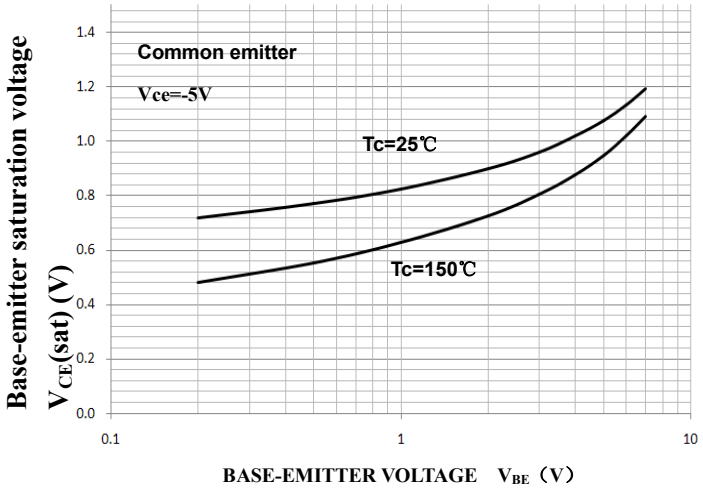
TO-247S



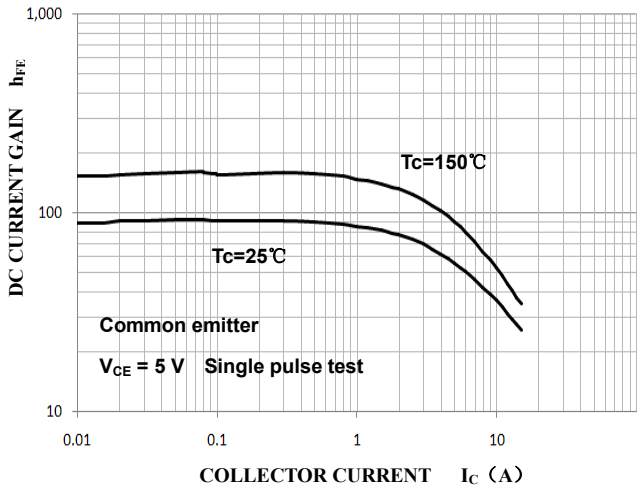
Ref.	Dimensions		
	Millimeters		
	Min.	Typ.	Max.
A	4.9		5.4
B	1.6		2.0
C	14.35		15.4
D	0.5		0.8
F	14.4		15.1
G	19.7		20.6
H	15.4		16.2
J	5.3		5.6
K	1.3		1.5
L	2.8		3.3
P	3.7		4.2
S	5.35		5.65

特征曲线 ELECTRICAL CHARACTERISTICS (curves)

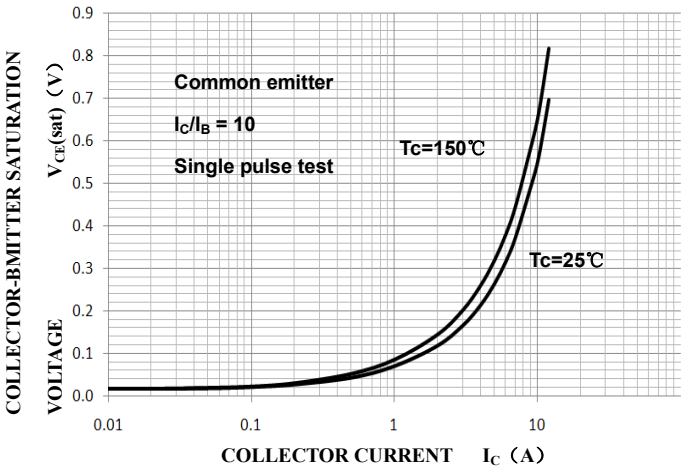
Base-Emitter Voltage



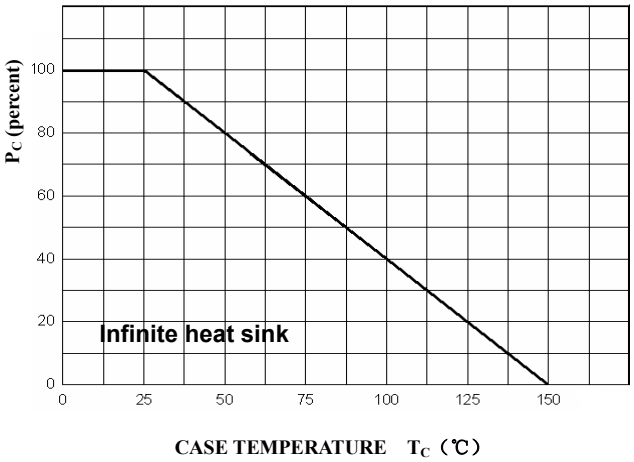
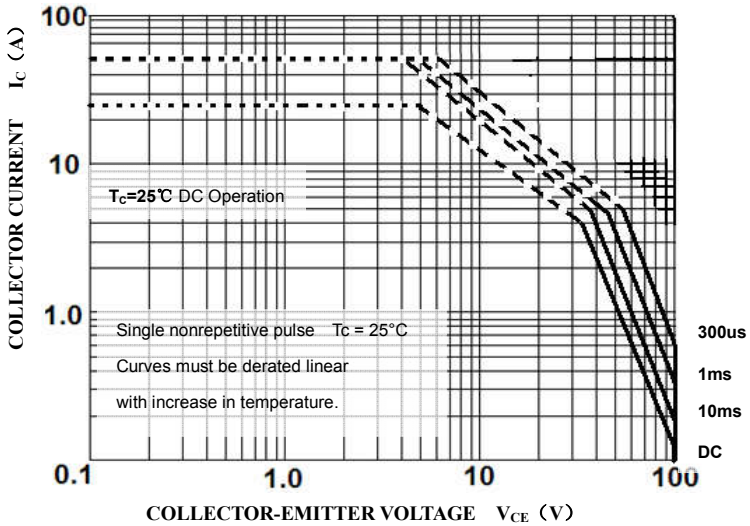
DC Current Gain



Saturation Voltage



Power Derating



SOA