



BL10N15A BL10P15A

主要参数 MAIN CHARACTERISTICS

I_C	10A
V_{CEO}	150V
P_C (TO-247)	100W

用途

- 音频放大电路
- 串联型稳压电路
- 一般功率放大电路

产品特性

- 高电流容量
- 高可靠性
- 环保 (RoHS) 产品

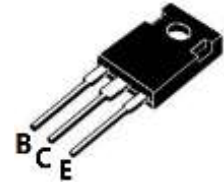
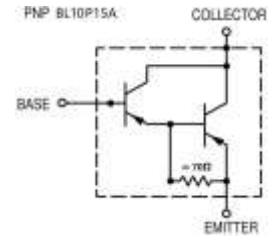
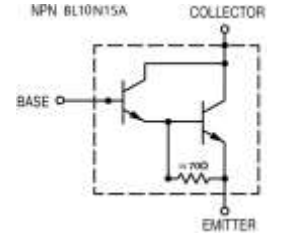
APPLICATIONS

- Audio
- Series Regulator
- General Purpose

FEATURES

- High current capability
- High reliability
- RoHS product

封装 Package



TO-247

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-袋装 Halogen-Reel	无卤-袋装 Halogen Free-Reel		
BL10N15A-GE-B	N/A	N/A	N/A	BL10N15A	TO-247
BL10P15A-GE-B	N/A	N/A	N/A	BL10P15A	TO-247

**绝对最大额定值 ABSOLUTE RATINGS (Tc=25°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}	150	V
集电极—发射极直流电压 Collector- Emitter Voltage ($I_B=0$)	V_{CEO}	150	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	10	A
最大基极直流电流 Base Current (DC)	I_B	1	A
最大集电极耗散功率 Total Dissipation (TO-247)	P_C	100	W
最高结温 Junction Temperature	T_j	150	°C
贮存温度 Storage Temperature	T_{stg}	-55~+150	°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
$V(BR)_{CEO}$	$I_C=30mA, I_B=0$	150	-	-	V
I_{CBO}	$V_{CB}=150V, I_E=0$	-	-	0.1	mA
I_{EBO}	$V_{EB}=5V, I_C=0$	-	-	0.1	mA
hFE	$V_{CE}=4V, I_C=10A$	9000	-	20000	
$V_{CE(sat)}$	$I_C=10A, I_B=10mA$	-	-	2.5	V
$V_{BE(sat)}$	$I_C=10A, I_B=10mA$	-	-	3.0	V
f_T	$V_{CE}=12V, I_E=2A$	55 typ _(BL10N15A) 50 typ _(BL10P15A)			MHz

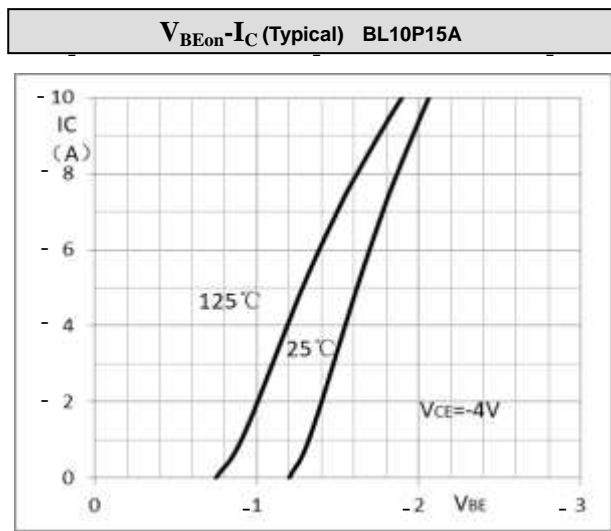
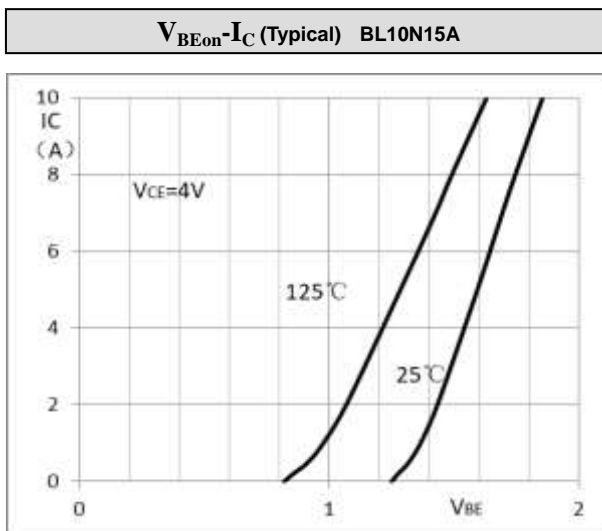
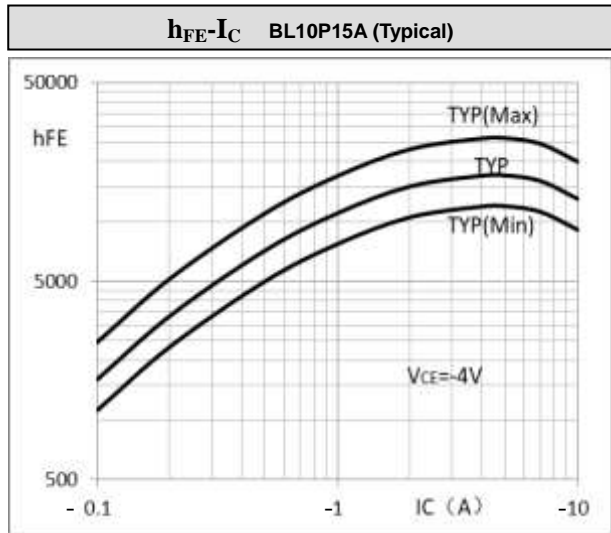
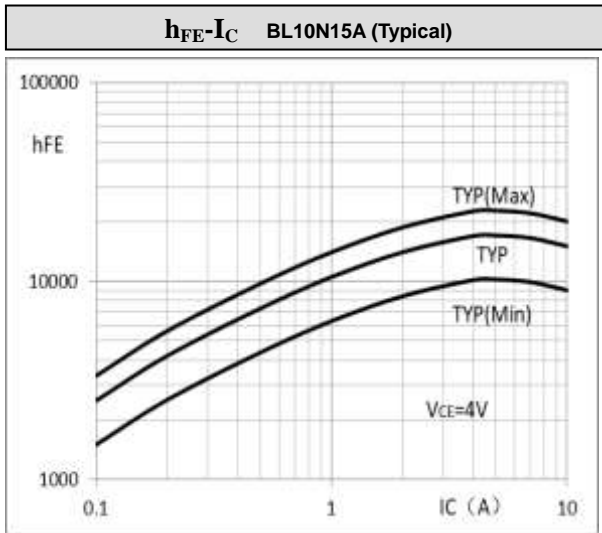
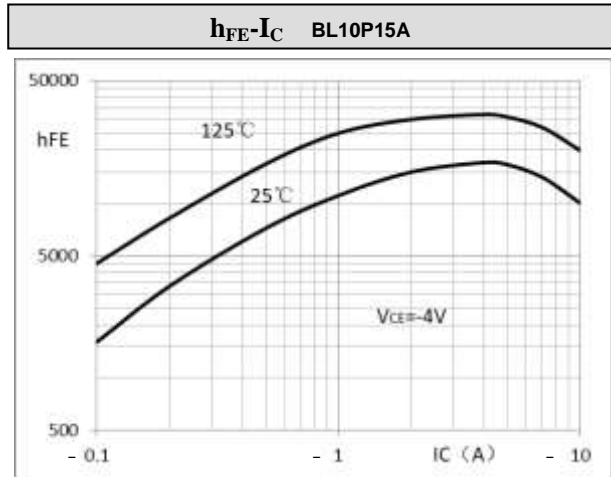
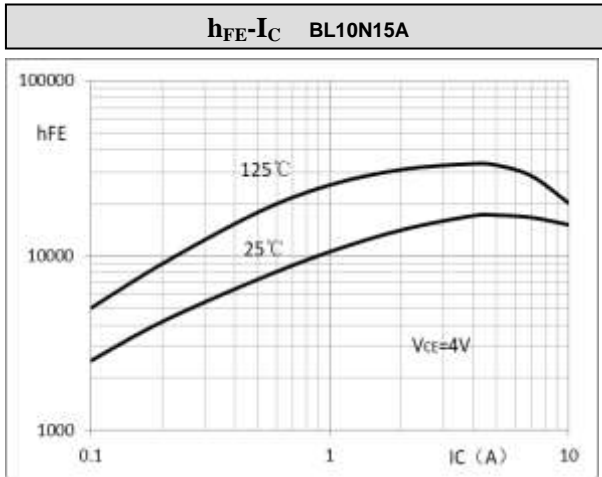
热特性 THERMAL CHARACTERISTIC

项 目 Parameter	符 号 Symbol	最大值 Value(max)	单 位 Unit
结到管壳的热阻 Thermal Resistance Junction Case	$R_{th(j-c)}$	1.25	°C/W



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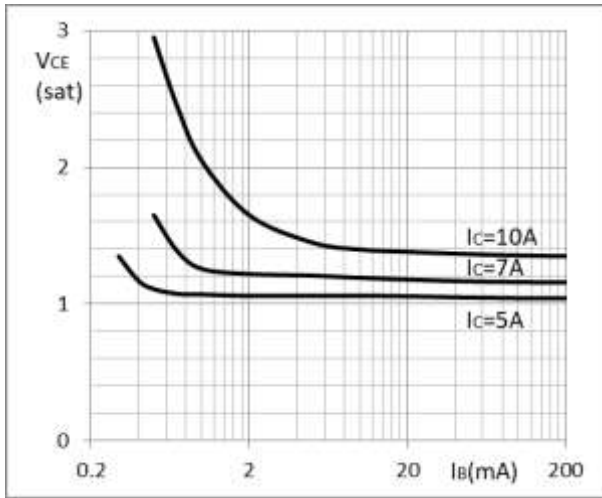
特征曲线 ELECTRICAL CHARACTERISTICS (curves)



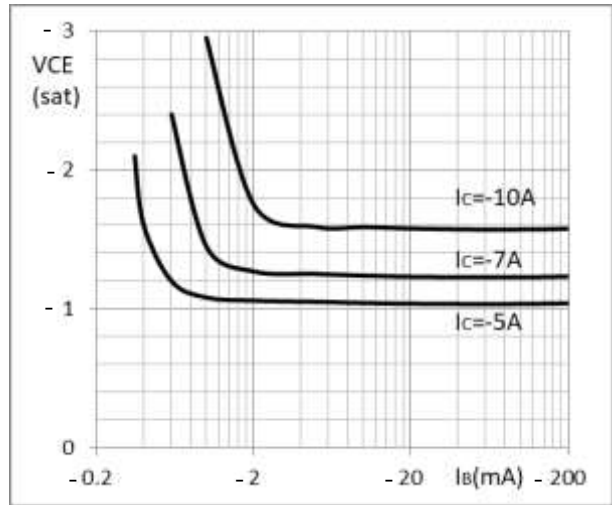


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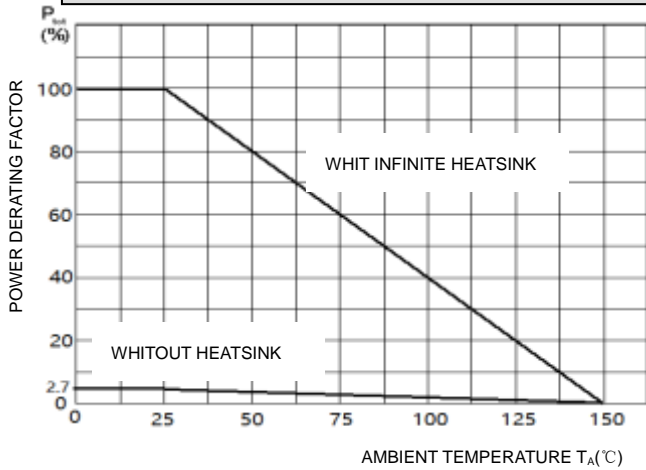
$V_{CE(SAT)}-I_B$ (Typical) BL10N15A



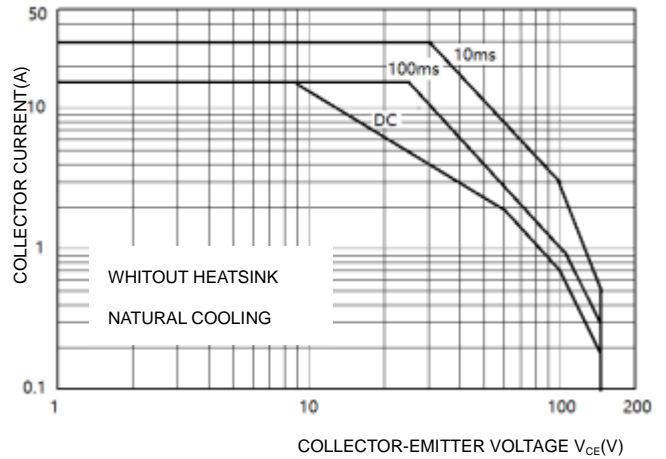
$V_{CE(SAT)}-I_B$ (Typical) BL10P15A



P_C-T_A Derating

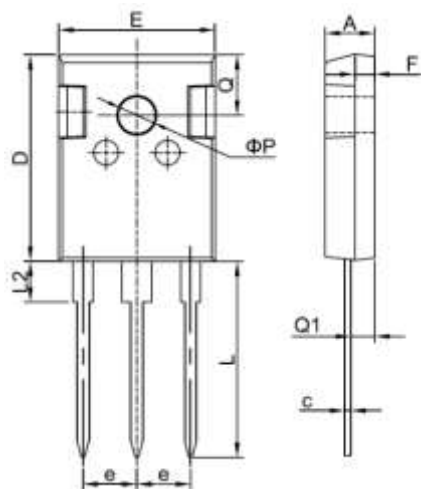


Safe Operating Area(Single Pulse)





单位 Unit : mm



符号	尺寸 (mm)
A	4.90-5.10
B	2.95-3.35
B1	1.95-2.35
b	1.15-1.35
c	0.50-0.70
D	20.9-21.1
E	15.7-15.9
e	5.34-5.54
F	1.90-2.10
L	19.4-20.4
L2	4.03-4.23
P	3.50-3.70
Q	6.00-6.40
Q1	2.30-2.50



注意事项

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4. 本说明书如有版本变更不另外告知。

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