



# 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

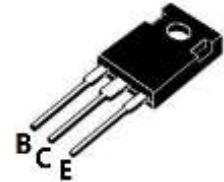
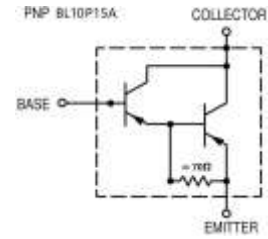
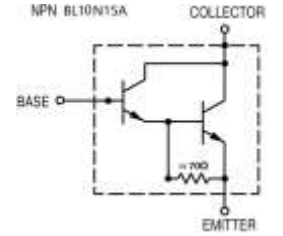
### APPLICATIONS

- 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 EIECTRICAL 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 <sub>(BL10N15A)</sub> 50 typ <sub>(BL10P15A)</sub>			MHz

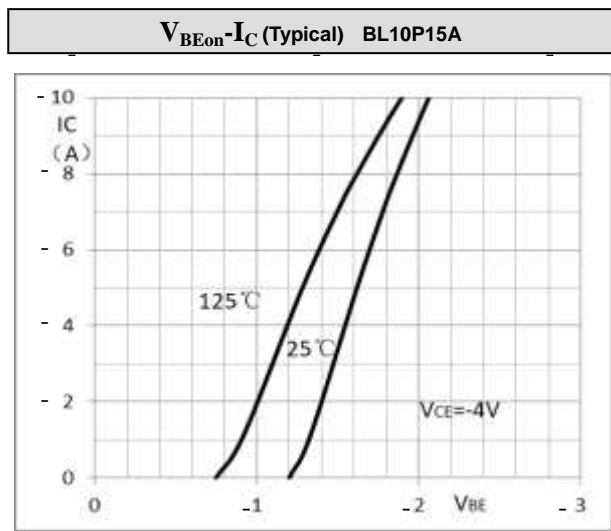
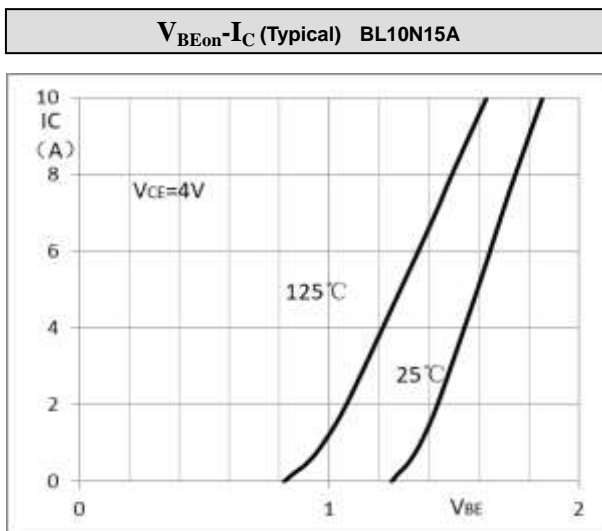
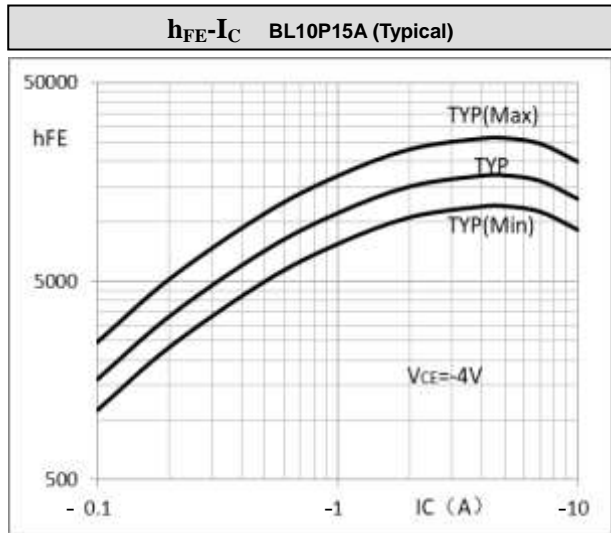
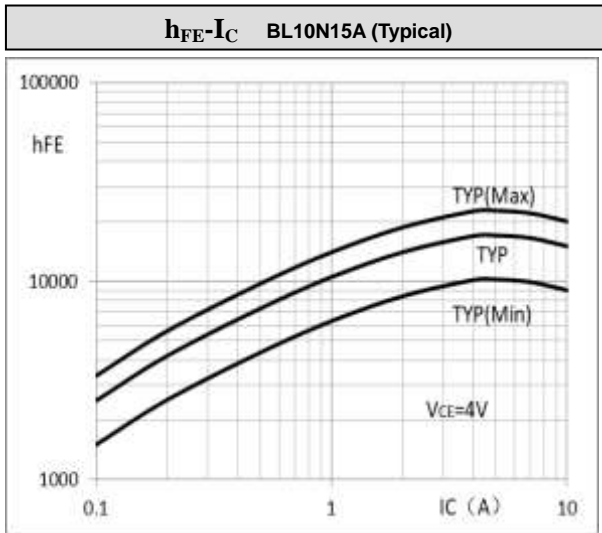
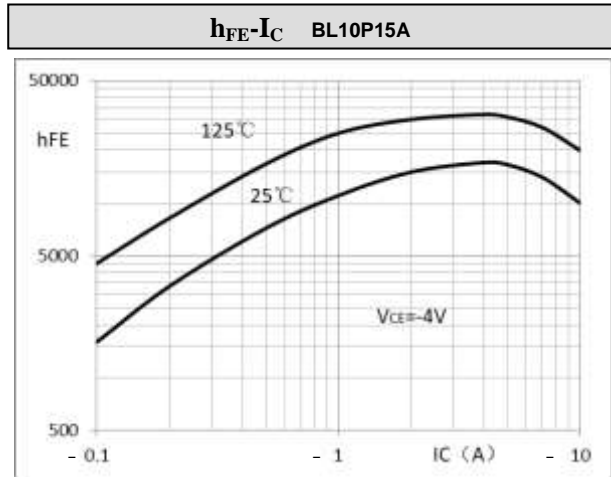
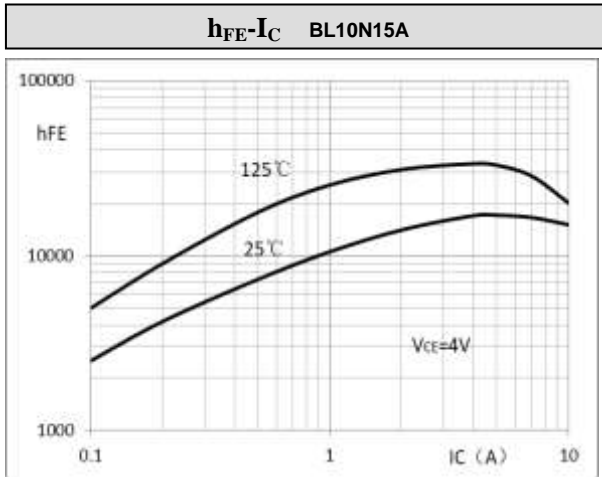
**热特性 THERMAL CHARACTERISTIC**

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



# BL10N15A BL10P15A

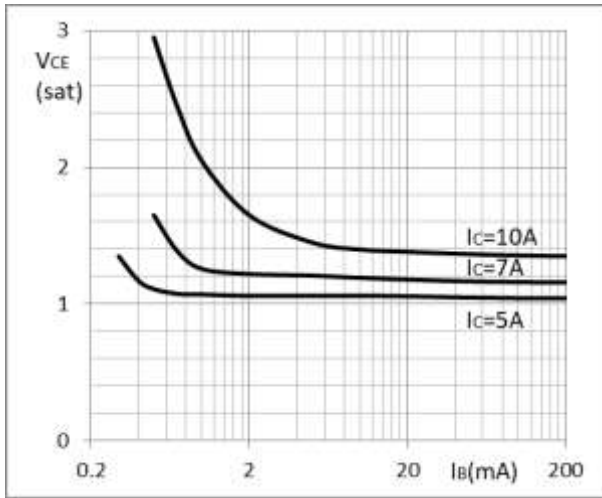
## 特征曲线 ELECTRICAL CHARACTERISTICS (curves)



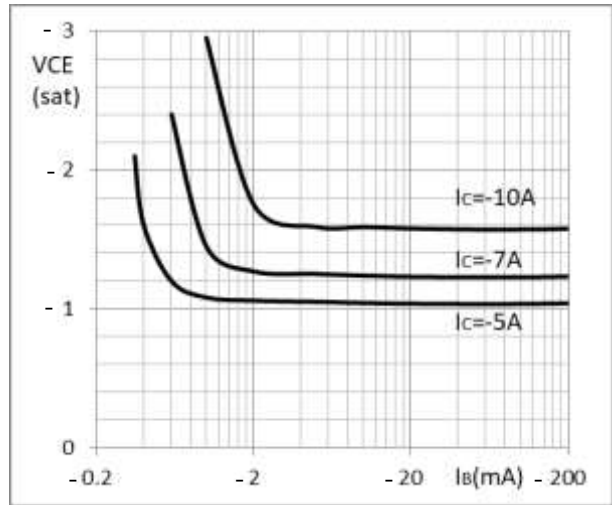


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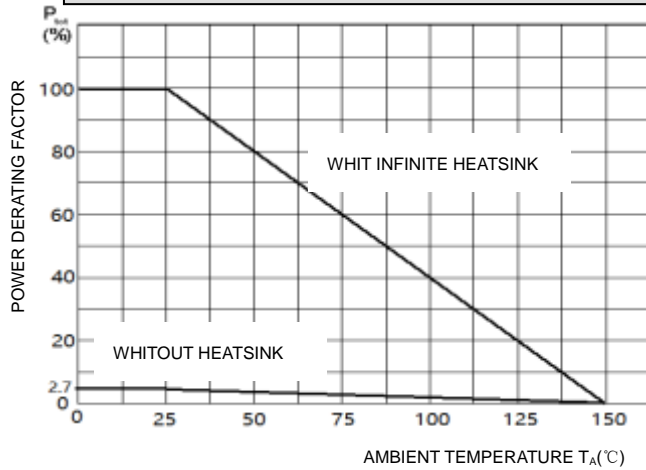
$V_{CE(SAT)}-I_B$  (Typical) BL10N15A



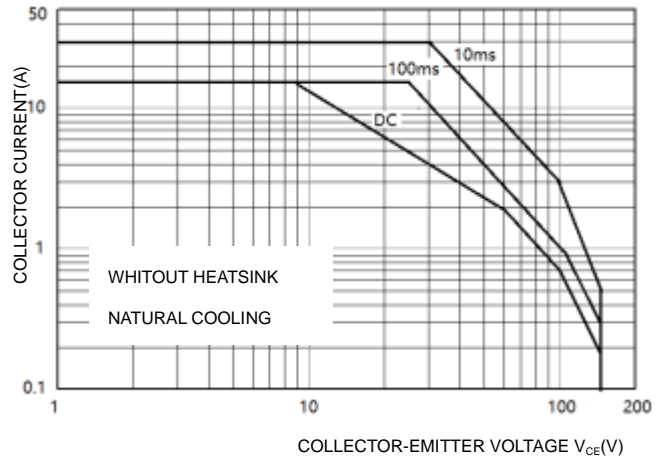
$V_{CE(SAT)}-I_B$  (Typical) BL10P15A



$P_C-T_A$  Derating

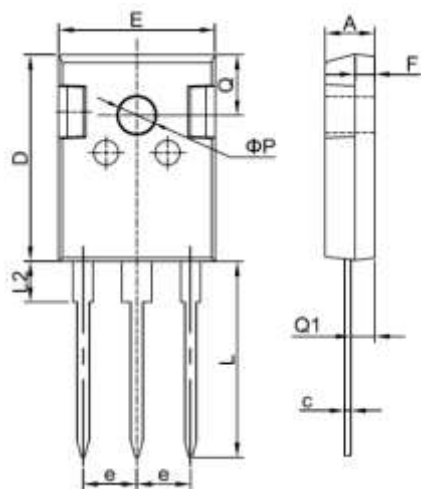


Safe Operating Area(Single Pulse)





单位 Unit : mm



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



## 注意事项

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3. 在电路设计时请不要超过器件的绝对最大额定值，否则会影响整机的可靠性。
4. 本说明书如有版本变更不另外告知。

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