

产品规格书 DATA SHEET

Part No: MHL324PT03CRT REV.2

本产品符合 ROHS 指令有关限制有害物质的环保要求.

| 日期 DATE | 拟制 PREPARED | 审核 VERIFIED | 批准 APPROVED |
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P/N: MHL324PT03CRT

LED LAMP

极限参数 Absolute Maximum Ratings(Ta=25℃)

| | | 0 | , | | | |
|-------------------------------|--|------------------------------|------------|-------------|-------------|-------|
| | 参数 | 符号 | | 极限值 | | 单位 |
| Parameter | | Symbol | | Rating | | Unit |
| 单字节功耗 | | PAD | | 10 | | mW |
| Power Dissipation Per Segment | | FAD | | | | IIIVV |
| 反向电压 Reverse Voltage | | VR | | 30 | | V |
| | | VIX | 50 | | | v |
| 工作温度 | | TOPR | | -25℃ to | 85 ℃ | |
| Ор | erating Temperature Range | | | | | |
| _ | 储藏温度 | TSTG | | -25℃ to 85℃ | | |
| St | orage Temperature Range | | | | | |
| 电特性 | Optical-Electrical Cha | aracteristic(Ta= | 25℃ | C) | | |
| 符号 | 参数 | 测试条件 | 最小 | 标准 | 最大 | 单位 |
| Symbol | Parameter | Test Condition | Min | Тур | Max | Unit |
| BVCEO | 集电极-发射极击穿电压 Collector-Emitter Breakdown Voltage | Ic = 100 uA Ee = 0 mw/cm2 | 30 | _ | - | V |
| BVCEO | 发射极-集电极击穿电压 Emitter-Collector Breakdown Voltage | Ic = 100 uA Ee = 0 mw/cm2 | 5 | - | - | V |
| ICEO | 集电极暗电流 | VCE=10V Ee=0 mw/cm2 | - | - | 100 | nA |
| Co | Collector Dark Current | VCE=5V Ee=0 mw/cm2 | - | - | 0.2 | uA |
| VCE(S) | 集电极-发射极饱和电压 Collector-Emitter Saturation Voltage | Ic = 2mA Ee=0.5mw/cm2 | - | - | 0.4 | V |
| TR/TF | 上升/下降时间 Rise / Fall Time | VCE=5V IC=1mA RL=1000Ω | - | 15/15 | - | uS |
| IC | 有载集电极电流 On Stat Collector Current | VCE=5V Ee=0.1mw/cm2 | - | 3 | - | mA |
| | 峰值灵敏度波长 | | | | | |



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标签 Label

连云港美华电子科技有限公司

P/N:MHL324PT03CRT

L/N: xxxxxxxxx

QTY:xxxx pcs

DATA: xxxxx

- P/N: 型号 Part Number
- LOT No: 生产单号 Lot Number
- QTY: 数量 Packing Quantity
- DATA:生产日期Data Code
- IV:亮度Luminous Intensity(参考Reference)
- VF:电压 Forward Voltage(参考 Reference)

| 测试条件 | 测试项目 | 分 BIN 要求 |
|---------------------|-----------------|------------|
| Ee=0,Ic=100µA,5ms | 集-射极崩溃电压 Vceo | Vceo>30V |
| Ee=0,Ie=100µA,5ms | 射-集极崩溃电压 Veco | Veco>5V |
| Ee=0,Vce=10V,5ms | 集-射极暗漏电流 Iceo | lceo≤0.1µA |
| Ee=0,Vce=5V,5ms | 集-射极暗漏电流 Iceo | lceo≤0.2μA |
| Ee=0.1mw/cm2,Vce=5V | 集-射极光电流 Ic,A 等级 | 0.1-0.6mA |
| Ee=0.1mw/cm2,Vce=5V | 集-射极光电流 Ic,B 等级 | 0.6-1.6mA |
| Ee=0.1mw/cm2,Vce=5V | 集-射极光电流 Ic,C 等级 | 1.6-2.6mA |
| Ee=0.1mw/cm2,Vce=5V | 集-射极光电流 lc,D 等级 | 2.6-3.6mA |
| Ee=0.1mw/cm2,Vce=5V | 集-射极光电流 Ic,E 等级 | 3.6-4.6mA |



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ca 200 K

50

K/s

100

50

0

5 K/s

forced cooling

100

LED LAMP

焊接 SOLDERING



150

200

s

250



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储藏 STORAGE

1. LED 在出厂后可在温度 30 度以下, 湿度 70%以下的环境内保存 3 个月时间 The LED should be stored at 30℃ or less and 70% RH or less after being shipped from MH and the storage life limits are 3 months.

2. 美华的 LED 是铁合金镀锡的,表面的镀层会被腐蚀性的气体侵蚀,因此不要将它保存在可能导致支架氧化,失去光泽或变色的环境,这些腐蚀可能会导致焊接困难,建议 尽快使用 Meihua's LED lead frames are comprised of a stannum plated iron alloy. The silver surface may be affected by environments which contain corrosive gases and so on. Please avoid conditions which may cause the LED to corrode, tarnish or discolor. This corrosion or discoloration may cause difficulty during soldering operations. It is recommended that the LED be used as soon as possible.

3. 请避免保存在温度变化明显,尤其是高湿度的地方 Please avoid rapid transitions in ambient temperature, especially, in high humidity environments where condensation can occur.

使用注意事项 Application Restrictions

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4. 静电放电(静电放电) ESD (Electrostatic Discharge

产品敏感的静电或冲击电压。当使用产品时静电放电会损坏模具及其可靠性。对静电放电的措施强烈推荐: The products are sensitive to static electricity or surge voltage. ESD can damage a die and its reliability. When handling the products, the following measures against electrostatic discharge are strongly recommended:

消除电荷 Eliminating the charge

接地的手环,防静电鞋,衣服和地板 Grounded wrist strap, ESD footwear, clothes, and floors

接地的工作站设备和工具 Grounded workstation equipment and tools

导电材料的防静电工作台/架子 ESD table/shelf mat made of conductive materials

正确的接地用于所有装置、设备和机器生产过程所必须。在产品设计时应考虑冲击保护。 Proper grounding is required for all devices, equipment, and machinery used in product assembly.Surge protection should be considered when designing of commercial products.

如果工具或设备含有绝缘如玻璃或塑料材料,需要做下列静电放电预防措施: If tools or equipment contain insulating materials such as glass or plastic,the following measures against electrostatic discharge are strongly recommended:

用导电材料耗散静电电荷 Dissipating static charge with conductive materials 保持环境的湿度 Preventing charge generation with moisture

使用离子风扇中和静电 Neutralizing the charge with ionizers

5. 发光二极管正向电流方向使用,驱动电路的设计必须使 LED 在关闭的状态下不经受 正向或逆向电压,如果反向电压不断应用于发光二极管,它可以导致 LED 损坏 The LEDs should be operated with forward bias. The driving circuit must be designed so that the LEDs are not subjected to forward or reverse voltage while it is off. If reverse voltage is continuously applied to the LEDs, it may cause migration resulting in LED damage.