

SPECIFICATION

产品规格书

REFOND P/N 产品型号

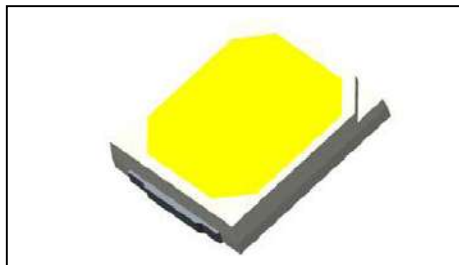
RT-**MP32DS-FF-I3

☐ R&D 研发

☒ Mass Product 量产供货

1. Description 产品介绍

1.1 General Description 产品描述



The White LED which was fabricated using a blue chip and the phosphor

该产品为白光 LED，是由蓝光芯片激发荧光粉而形成，产品尺寸：2.8mmX3.5mmX0.7mm。

1.2 Features 产品特征

- ▶ PLCC-2 Package. 封装
- ▶ Extremely wide viewing angle. 发光角度大
- ▶ Suitable for all SMT assembly and solder process. 适用于所有的SMT组装和焊接工艺
- ▶ Available on tape and reel. 适用于载带及卷轴
- ▶ Moisture sensitivity level: Level 3. 防潮等级 Level 3
- ▶ RoHS compliant. 满足RoHS要求

1.3 Application 产品应用

- ▶ Indoor lighting. 室内照明
- ▶ Bulb lighting. 球泡灯
- ▶ General indoor applications. 其它适合的室内应用

1.4 Product Selection Table 产品型号

Modle NO.	CCT	Center		
		code	x	y
RT-30MP32DS-FF-I3	3000K	A30	0.4338	0.4030
RT-40MP32DS-FF-I3	4000K	A40	0.3818	0.3797
RT-50MP32DS-FF-I3	5000K	A50	0.3447	0.3553

1.5 Package Dimension 封装尺寸

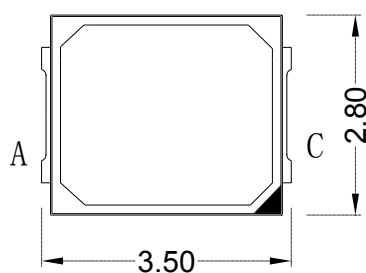


Fig.1-1 Top view 正面视图

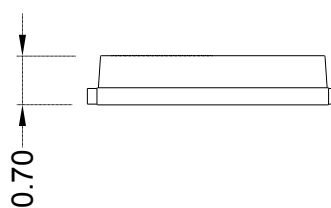


Fig.1-2 Side view 侧面视图

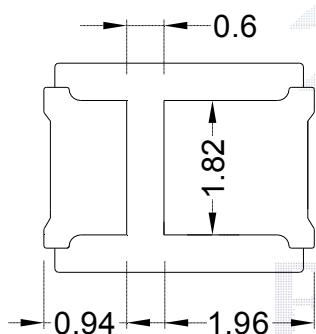
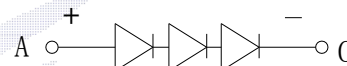


Fig.1-3 Bottom view 背面视图



Polarity
A: anode
C: cathode

Fig.1-4 Polarity 极性

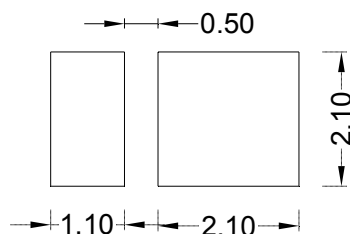


Fig.1-5 Soldering patterns 推荐焊盘

Notes 备注:

1. All dimensions units are millimeters. 所有尺寸标注单位为毫米
2. All dimensions tolerances are $\pm 0.05\text{mm}$ unless otherwise noted. 除特别标注外, 所有尺寸公差为 ± 0.05 毫米

1.6 Product Parameters 产品参数

Table 1-1 Electrical / Optical Characteristics at Ts=25°C 电性与光学特性

Item 项目	Code 代码	Symbol 符号	Test condition 测试条件	RF			
				Min.	Max.	Typ.	unit 单位
Forward Voltage	Rank Y0	V _F	I _F =100mA	8.6	9.0	9.05	V
	Rank Z0			9.0	9.4		V
	Rank A3			9.4	9.8		V
RT-30MP32DS-FF-I3	Rank XEA	Φ	I _F =100mA	130	135	140	lm
	Rank XFA			135	140		lm
	Rank YGA			140	145		lm
RT-40MP32DS-FF-I3	Rank XFA	Φ	I _F =100mA	135	140	145	lm
	Rank YGA			140	145		lm
	Rank YHA			145	150		lm
RT-50MP32DS-FF-I3	Rank XFA	Φ	I _F =100mA	135	140	145	lm
	Rank YGA			140	145		lm
	Rank YHA			145	150		lm
Reverse Current (漏电流)		I _R	V _R =15V	---	10	---	uA
Viewing Angle (发光角度)		2θ1/2	I _F =100mA	---	---	120	Deg
Color Rendering Index(显色指数)		CRI		70	---	72	---
Thermal resistance (热阻)		R _{THJ-S}		---	---	10	°C/W

Table 1-2 Absolute Maximum Ratings at Ts=25°C 绝对最大值

Parameter (参数)	Symbol (符号)	Rating (值)	Units (单位)
Power Dissipation (功耗)	P _D	1128	mW
Forward Current (正向电流)	I _F	120	mA
Peak Forward Current (峰值电流)	I _{FP}	220	mA
Reverse Voltage (反向电压)	V _R	15	V
Electrostatic Discharge(HBM) (静电)	ESD	2000	V
Operating Temperature (操作温度)	T _{OPR}	-40 ~ +105	°C
Storage Temperature (储存温度)	T _{STG}	-40 ~ +105	°C
Junction Temperature (结温)	T _J	125	°C