



СВЕТОДИОДЫ BEELED - ТЕХНИЧЕСКОЕ ОПИСАНИЕ

Product Type: BLD-SMD5050UV1W-LG365

Version No.: 01

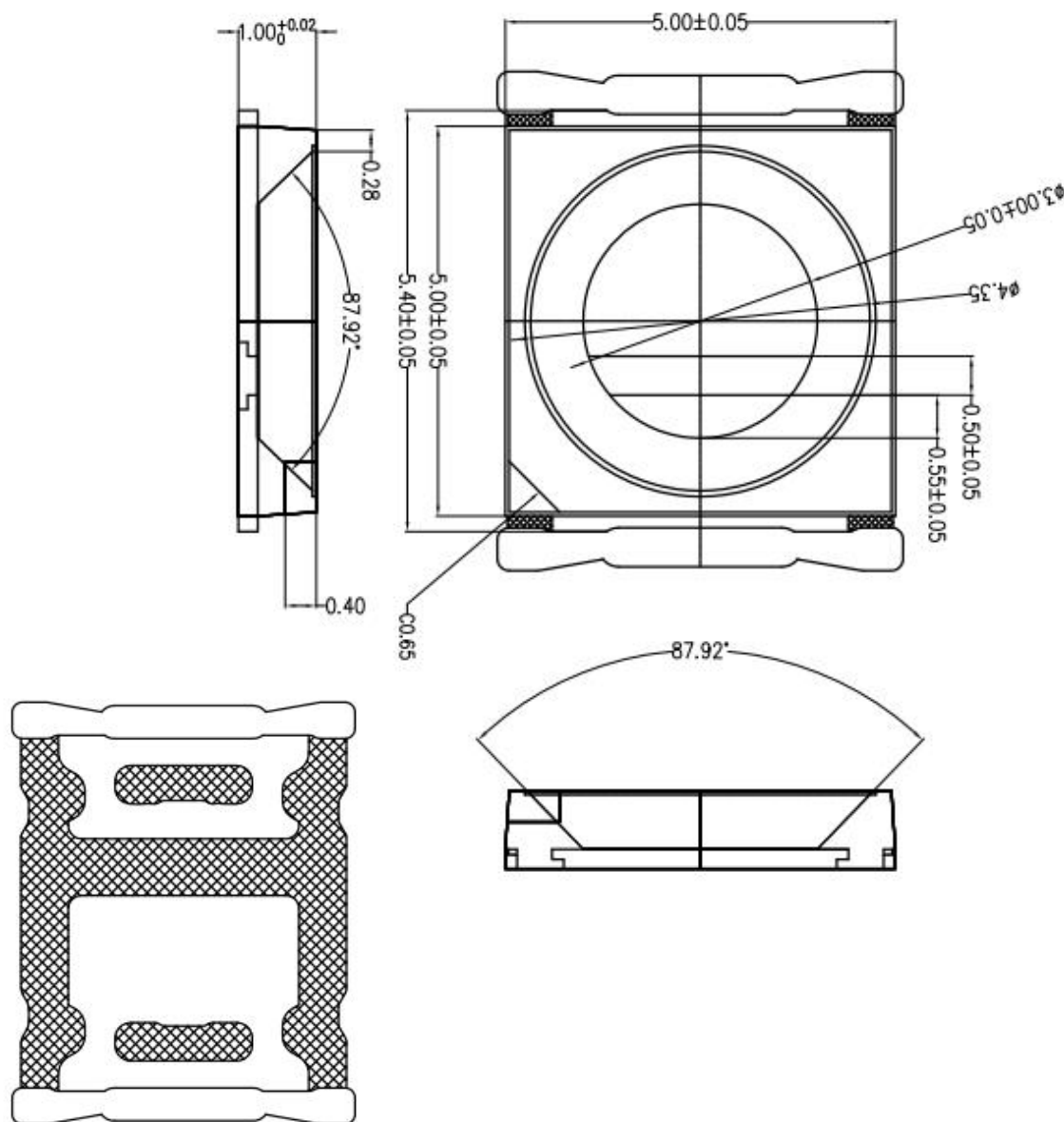
Product Description:

- 1 watt High Power LED
- Peak wavelength: 365-370nm
- Chip: LG
- Radiant Flux: 500-600mW
- Colloid Color: Transparent
- Emission Color: Purple
- Viewing Angle: 140°

Dice Material: GaInN



Outline Drawing



Notes:

1. All dimensions are in mm, tolerance is ± 0.25 mm unless otherwise noted.
2. An epoxy meniscus may extend about 1.2 mm down the leads.
3. Burr around bottom of epoxy may be 0.5 mm max.



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Absolute Maximum Ratings (Ta = 25°C)

Items	Symbol	Maximum	Units
DC Forward Current	I_F	350	mA
Peak forward current	I_{FP}	1000	mA
Reverse Voltage	V_R	5	V
Power consumption	P_D	1	W
Operation Temperature	T_{opr}	-20~+75	°C
Storage Temperature	T_{stg}	-30~+80	°C
Lead Soldering Temperature	T_{sol}	Max 260°C for 5 sec Max. (3mm from the base of the body)	

✱ Pulse width ≤ 0.1msec duty ≤ 1/10

Product Optical Properties (Ta = 25°C)

Item	Symbol	Conditions	Min	Averag e	Max	Units
Forward Voltage	V_F	$I_F=350\text{mA}$	3.2	----	3.6	V
	V_F	$I_F=1000\text{mA}$	3.3	----	3.6	V
Reverse current	I_R	$V_R=5\text{V}$	---	-----	10	μA
Peak Wavelength	λ_p	$I_F=350\text{mA}$	365	-----	370	nm
Chromaticity Coordinates	X	$I_F=350\text{mA}$	-----	-----	---	----
	Y	$I_F=350\text{mA}$	-----	-----	----	----
Luminous Flux	I_v	$I_F=350\text{mA}$	10	----	20	lm
50% power Angle	$2\theta^{1/2}_{H-H}$	$I_F=350\text{mA}$	---	70	---	deg
	$2\theta^{1/2}_{V-V}$	$I_F=350\text{mA}$	----	---	---	deg



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Absolute Maximum Ratings

Parameter	Symbol	Rating	Unit
		Purple	
DC Forward Current(mA)	If	350	mA
Peak Pulse Current(mA)	If	1000	mA
Reverse Voltage	VR	5	V
LED Junction Temperature	Tj	125	°C
Operation Temperature	Topr	-20--65	°C
Storage Temperature	Tstg	-20--70	°C
Soldening Temperature	Tsol	260	°C
ESD Sensitivity	Vb	4000	V