



HIGH VOLTAGE 1W LED SERIES

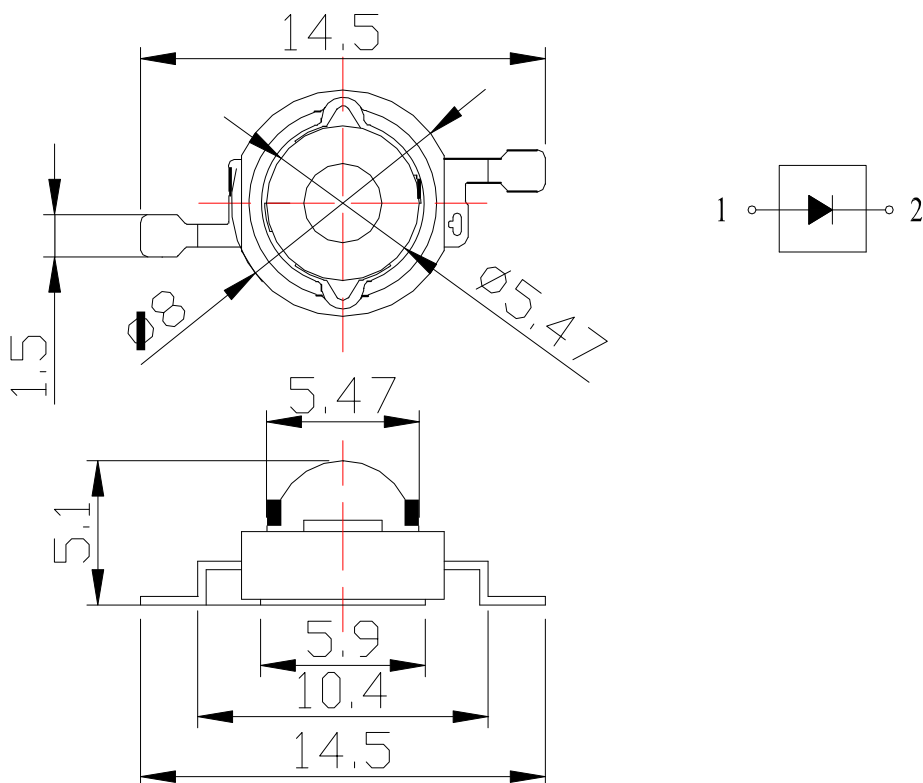
GENERAL DESCRIPTION

The High Voltage (HV) LED is a surface-mount high voltage component featuring compact size, high brightness, and DC input voltage that more closely resembles the V_{RMS} of AC mains voltage. This allows for simple lighting fixtures designs that do not require full converter and driver solutions – dramatically reducing the total design costs while increasing total fixture efficiency.

APPLICATION

- Reading lights
- Portable (flashlight, bicycle)
- Uplighters/Downlighters
- Spherical Lamp
- Bollards/Security/Garden
- Indoor/Outdoor Commercial and Residential Architectural

PACKAGE DIMENSIONS



Notes :

1. All dimensions are in mm.
2. Tolerance is +/-0.6mm unless otherwise noted.



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Absolute Maximum Ratings at Ta=25°C

Parameter	Rating	Unit
Power Dissipation	1000	mW
LED Junction Temperature	120	°C
Reverse Voltage	5	V
D.C. Forward Current	20	mA
Pulsed Forward Current ; tp ≤ 100μs, Duty cycle=0.005)*1	30	mA
Operating Temperature Range	-40 to +75	°C
Storage Temperature Range	-40 to +100	°C
Soldering Temperature	Reflow Soldering : <260°C for 10 sec.	
Electric Static Discharge Threshold (HBM)	1000	V

Electrical and Optical Characteristics

Parameter		Symbol	Condition	Values			Units
				Min.	Typ.	Max.	
Luminous Flux	FULL	Φv	IF=20mA		110		lm
	Rank L1			100		120	
	Rank L2			120		140	
	Rank V01	VF	IF=20mA	50		51	V
	Rank V02			51		52	
	Rank V03			52		53	
	Rank V04			53		54	
	Rank V05			54		55	
Correlated Color Temperature		CCT	IF=20mA		6000		K
CIE Chromaticity Coordinates : X Axis		X	IF=20mA		0.3175		
CIE Chromaticity Coordinates : Y Axis		Y	IF=20mA		0.3283		
Viewing angle		2θ1/2	IF=20mA		130		Deg.
Thermal Resistance Junction to Case		RθJ-C	IF=20mA		15		°C/W

Notes :

1. The datas tested by IS tester.
2. Customer's special requirements are also welcome.