

DATA SHEET

SPEC. NO. : SZ17101701
DATE : 2022/08/09
REV. : B/1

Approved By:

Checked By:

Prepared By:

Parameter	MAX.	Unit
Power Dissipation	150	mW
Continuous Forward Current	100	mA
Peak Forward Current ^{*2}	1.0	A
Reverse Voltage	5	V
Electrostatic Discharge (HBM) ^{*3}	2000	V
Moisture Sensitivity Level ^{*1}	5a	
Operating Temperature	-40 to + 85	
Storage Temperature	-40 to + 100	
IR Reflow Temperature	260 for 10 Seconds MAX.	

- (1). Storage requirements before vacuum bag opened: Temperature<30 , Humidity<65%RH;
- (2). Check air leakage and vacuum bag damage before opened. If there is any issue found, check the humidity indicator card immediately after bag opened:
 - a. If color changes on “10% circle” of the humidity indicator card only and not the circles of 20% and above, components can be used without additional handling;
 - b. If color changes on both 10% and 20% circles but not the circles of 30% and above, components must be dehumidified according to the conditions of bullet (5);
 - c. If color changes on 10%, 20%, and 30% circle or above, the product should be returned to the supplier for high temperature dehumidification;
- (3). After bag opened, manual soldering or reflow process must follow the following requirements:
 - a. Complete soldering / reflow within 24 hours;
 - b. Requirements of working environment: Temperature<30 , Humidity<60%RH;
- (4). If the working condition is outside (3)a or (3)b requirement, the components must be dehumidified according to the conditions of bullet (5);
- (5). Low temperature dehumidification: temperature 60±5 , at least 24 hours;
- (6). Shelf life: 30 days. If it’s over 30 days from the production date on the package label, the components must be dehumidified according to the condition of bullet (5). If customer is unable to dehumidify, return components to LIGHT for dehumidification.

Static Electricity and surge damages the LED. It is recommend to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Radiant Intensity	I_e	1.7	2.0	---	mW/sr	$I_F=20\text{mA}$ (Note 1,3)
Viewing Angle(X)	$1/2$	---	120	---	Deg.	(Note 2)
Viewing Angle(Y)		---	120	---		
						$I_F=20\text{mA}$
Spectral Line Half- Width						$I_F=20\text{mA}$
Forward Voltage	V_F	1.1	1.25	1.5	V	$I_F=20\text{mA}$
Reverse Current	I_R	---	---	10	μA	$V_R=5\text{V}$

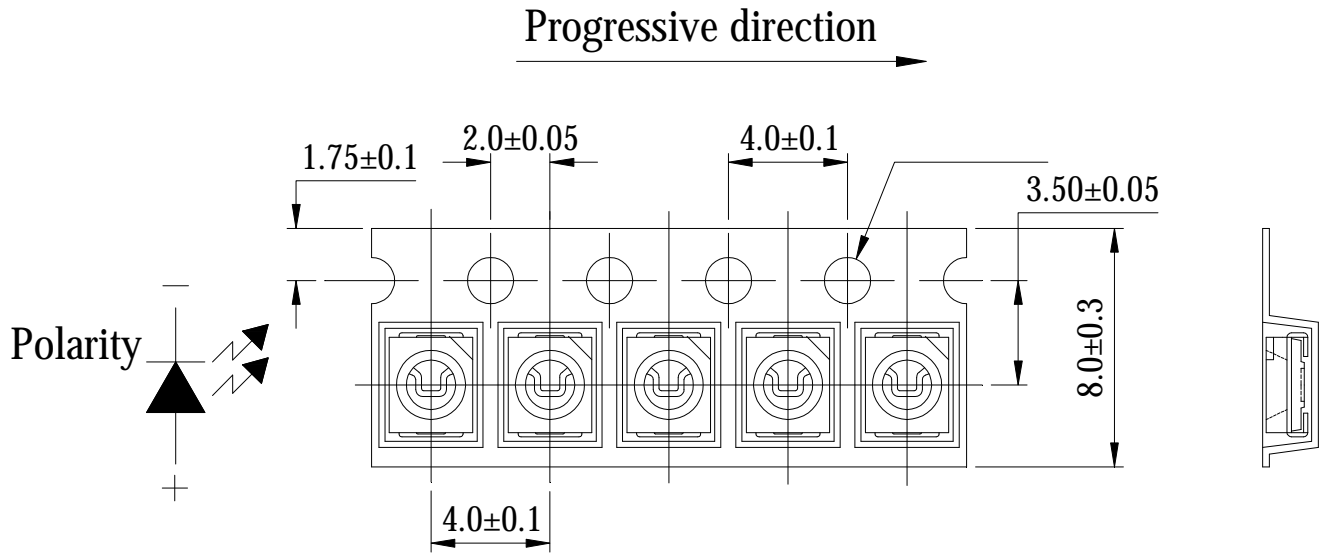
1. Point sources of the amount of radiation per unit time in a given direction within the unit solid Angle radiated energy.

$1/2$ is the off-axis angle at which the Radiant Intensity is half the axial Radiant Intensity.

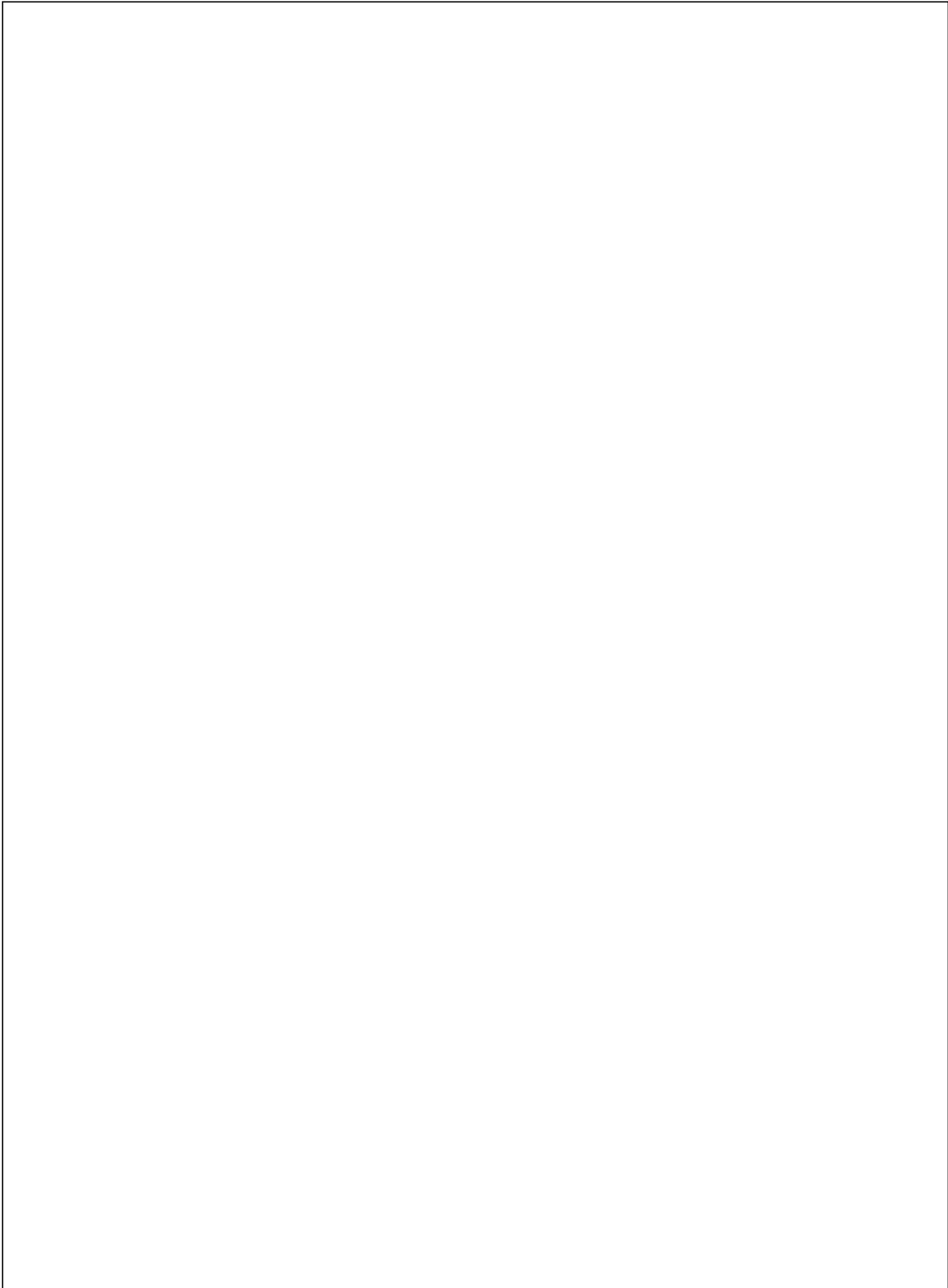
3. The I_e guarantee should be added $\pm 15\%$ tolerance.

4. The V_F guarantee should be added $\pm 0.1\text{V}$ tolerance.

: The Ie guarantee should be added $\pm 15\%$ tolerance.



Tolerance unless mentioned is ±0.1mm; Unit = mm



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