

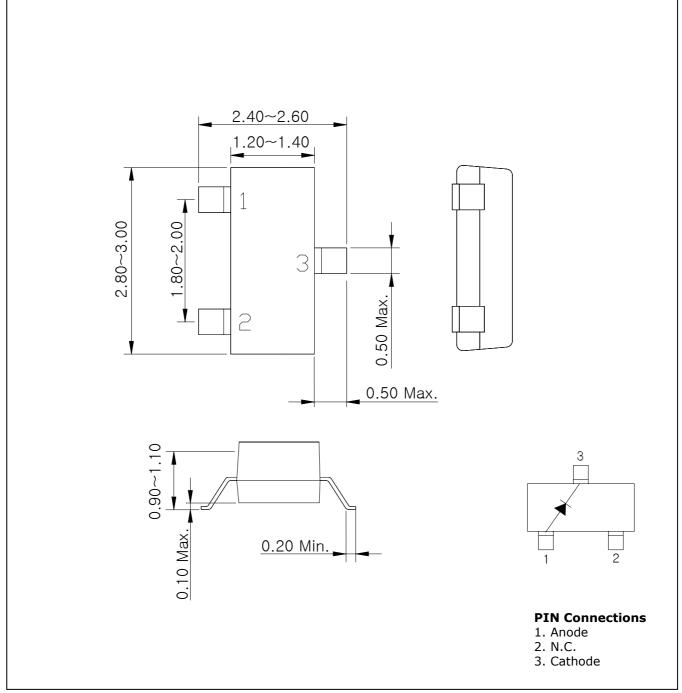




Features

- Colorless diffusion lens type
- Compact type
- Radiation size 2.9mm(L)×1.3mm(W) surface mount type.
- ESD Protected (±2.0KV, 3 Times @100pF, 1.5KΩ)

Outline Dimensions unit: mm

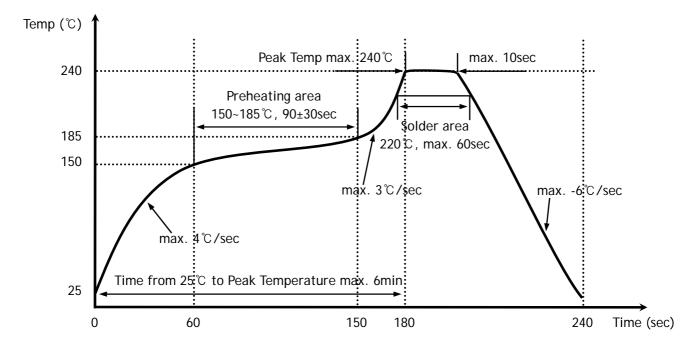


Absolute Maximum Ratings

	_	
	$=25^{\circ}$	α
1 19	= /.5	

Characteristic	Symbol	Rating	
Power dissipation	P_{D}	85	mW
Forward current	\mathbf{I}_{F}	20	mA
*¹Peak forward Current	${ m I}_{\sf FP}$	50	mA
Reverse voltage	V_R	4	V
Operating temperature range	T _{opr}	-25~80	$^{\circ}$
Storage temperature range	T _{stg}	-30~100	$^{\circ}$
*2Soldering temperature	T _{sol}	240℃ for 10 seconds	

^{*1.} Duty ratio = 1/16, Pulse width = 0.1ms



Electrical / Optical Characteristics

	2500	`
(Ta	$=25^{\circ}C$)

Characteristic	Symbol	Test Condition	Min	Typ.	Max.	Unit
Forward voltage	V_{F}	I _F = 10mA	-	3.6	4.2	V
* ³ Luminous intensity	I _V	I _F = 10mA	10	-	36	mcd
Peak wavelength	λ_{P}	I _F = 10mA	-	470	-	nm
Spectrum bandwidth	Δ_{λ}	I _F = 10mA	-	26	-	nm
Reverse current	I_{R}	V _R =4V	-	-	10	uA
* ⁴ Half angle	01/2	I _F = 10mA	-	±55	-	deg
	θ1/2		-	±80	-	l ueg

^{*2.} Recommended reflow soldering temperature profile

- *4. θ 1/2 is the off-axis angle where the luminous intensity is 1/2 the peak intensity
- *3. Luminous intensity maximum tolerance for each grade classification limit is $\pm 18\%$
- *3. Luminous Intensity Classification

G	Н
10~23	23~36

Characteristic Diagrams

Fig. 1 I_F - V_F

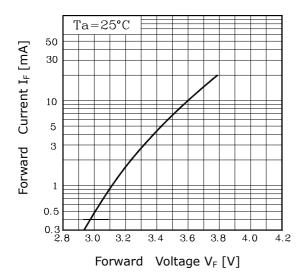


Fig. $3 I_F - Ta$

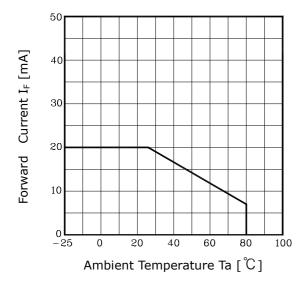
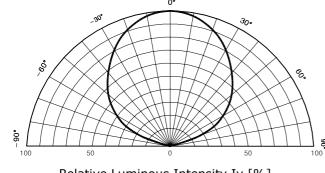


Fig. 5-1 Radiation Diagram(X)



Relative Luminous Intensity Iv [%]

Fig. 2 I_V - I_F

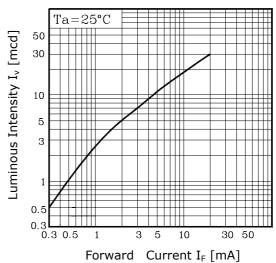


Fig.4 Spectrum Distribution

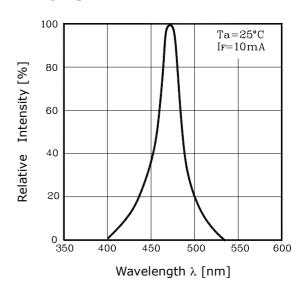
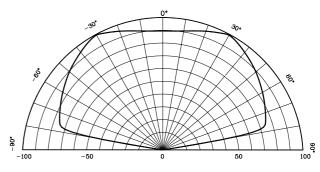


Fig. 5 Radiation Diagram



Relative Luminous Intensity Iv [%]

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