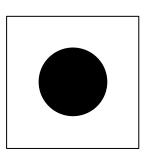
EPISTAR

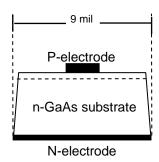
> Mechanical Specification:

- (1) Dimension
 - Chip size: 9 mil x 9 mil (230±25 μm x 230±25 μm)
 - Thickness: 6.7 mil (170±25 μm)
 - P bonding pad: 3.9 mil (100 \pm 10 μ m)

(2) Metallization

- Topside P electrode: Au alloy
- Backside N electrode: Au alloy





Features:

- High luminous intensity
- \cdot ITO layer on top

Applications:

- Mobile appliances
- Indoor application
- · Consumer electronic

> Electro-optical Characteristics at 25°C:

Parameter	Symbol		Condition	Min.	Тур.	Max.	Unit
Forward Voltage	Vf1		lf = 10μΑ	1.3	-	-	V
	Vf2		lf = 20mA	-	2.05	2.4	V
Reverse Current	Ir		Vr = 10V	-	-	10	μΑ
Peak Wavelength	λр		lf = 20mA	-	639	-	nm
Dominant Wavelength ⁽¹⁾	λd		lf = 20mA	626	631	636	nm
Spectra Half-width	Δλ		lf = 20mA	-	20	-	nm
Luminous Intensity ⁽²⁾⁽³⁾	lv	E3	If = 20mA	35	-	-	mcd
		E4		45	-	-	
		E5		60	-	-	
		E6		75	-	-	

Note:

(1) Basically, the wavelength span is 10nm; however, customers' special requirements are also welcome.

(2) Customers' special requirements are also welcome.

(3) Luminous intensity is measured by EPISTAR's equipment on bare chips.

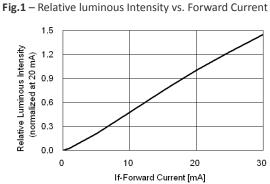
This product is made and sold under one or more of the following patents: Taiwan Patent Certificate Nos.: 098998; 113696; 128153; 131010; 144415; 148677; 170789; 183481; 183846; U.S. Patent Nos.: 5,008,718; 5,164,798; 5,233,204; 5,789,768; 6,078,064; 6,057,562; 6,225,648; 6,552,367; 6,876,005, and any foreign counterparts.

Parameter	Symbol	Condition	Rating	Unit
Forward DC Current	If	Ta = 25°C	≤ 30	mA
Reverse Voltage	Vr	Ta = 25°C	≤ 10	V
Junction Temperature	Тј	-	≤ 115	°C
		Chip	-40 ~ +85	°C
Storage Temperature	Tstg	Chip-on-tape/storage	5 ~ 35	°C
		Chip-on-tape/transportation	-20 ~ +65	°C
Temperature during Packaging	-	-	280(<10sec)	°C

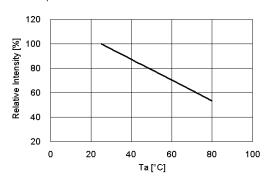
> Absolute Maximum Ratings:

Note: Maximum ratings are package dependent. The above maximum ratings were determined using a Printed Circuit Board (PCB) without an encapsulant. Stresses in excess of the absolute maximum ratings such as forward current and junction temperature may cause damage to the LED

> Characteristic Curves:









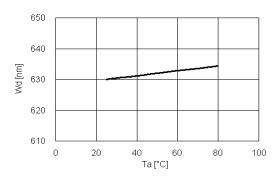


Fig.2 – Forward Current vs. Forward Voltage

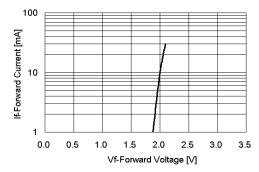


Fig.4 – Forward Voltage (@20mA) vs. Ambient Temperature

