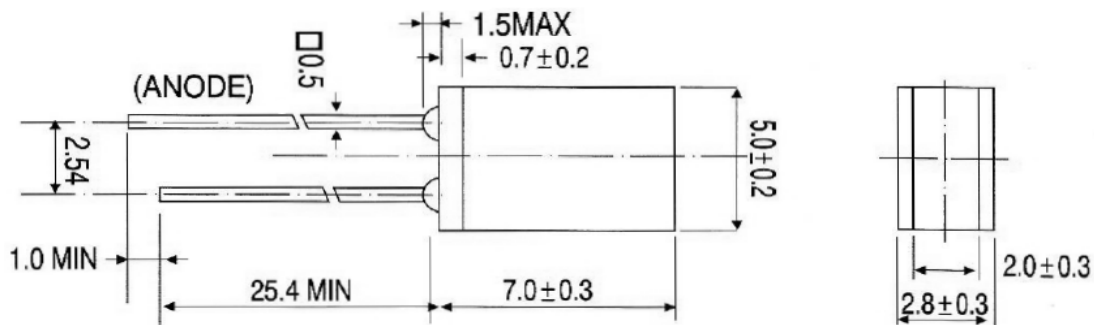




**Applications**

- Electronic Signs and Signals
- Small Area Illuminations
  - Back Lighting
  - Other Lighting

**Technical Drawing**



**Notes :**

All dimensions in mm tolerance is  $\pm 0.1\text{mm}$  unless otherwise noted.

<b>Rectangular LED White</b>	
Part No.:	<b>M13D1022</b>
Customer:	

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	28.06.2010
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**Absolute Maximum Ratings**

Item	Symbol	InGaN	Unit
Power Dissipation	$P_D$	140	mW
DC Forward Current	$I_F$	30	mA
Pulsed Forward Current	$I_{FP}^*$	70	mA
Reverse Voltage	$V_R$	5	V
Operating Temperature	$T_{OP}$	-40 to 80	°C
Storage Temperature	$T_{ST}$	-40 to 100	°C

\* 0.1 msec pulse, 10% duty cycle

**Electrical / Optical Characteristics**

Ermitting Color	White		
Material	InGaN		
Forward Voltage	typ.	2.9	$V_F$
	max.	3.3	$V_F$
Wavelength typ.	$\lambda_D$	---	nm
	$\lambda_P$	---	nm
	$\Delta\lambda$	---	nm
Color Temperature	min.	---	K
	max.	---	K
Luminous Intensity *	min.	100	mcd
	typ.	250	mcd
Reverse Current	max.	---	$\mu A$
Viewing Angle	$2\theta_{1/2}$	80	

\* Per NIST standards

**Rectangular LED  
White**

Part No.: **M13D1022**

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### Directive Characteristics

**Rectangular LED  
White**

Part No.: **M13D1022**

Customer:

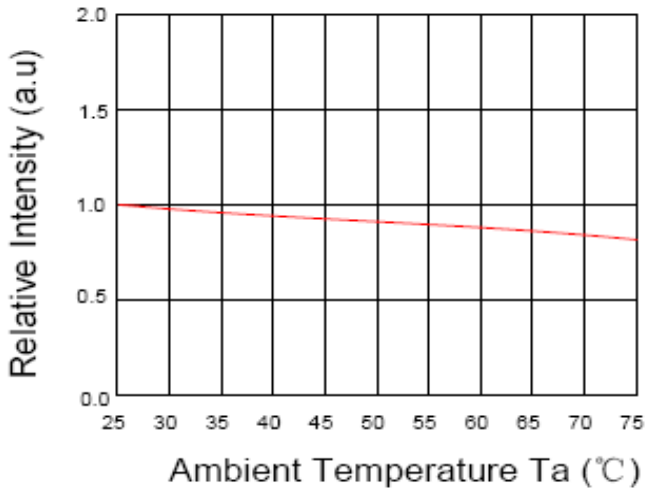
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	28.06.2010
APPD:	Ping			FINISH	Hui	Sheet	3 from 6

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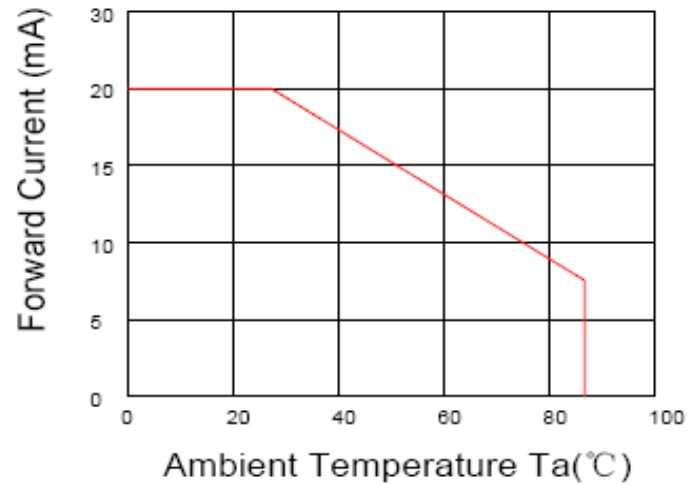


**Curve**

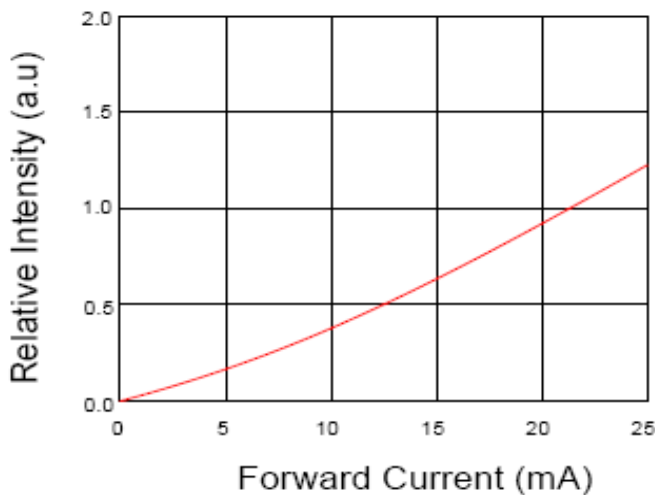
Relative Intensity VS. Ambient Temp



Forward Current VS. Ambient Temp



Forward Current VS. Relative Intensity



**Rectangular LED  
White**

Part No.: **M13D1022**

Customer:

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**Solder Condition**

**Lead Free Solder**



<b>Rectangular LED White</b>	
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**Color table curve**



<b>Rectangular LED White</b>	
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