# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





### Visible Blue Emitter

#### Product No: MTE4047N2-UB

#### Peak Emission Wavelength: 470nm

The MTE4047N2-UB consists of a 470nm high output blue die in a water-clear 5mm plastic molded package. Custom package solutions and sorting are available.

#### FEATURES

- > High Output Power
- > High Reliability

### APPLICATIONS > Optical Sensors

- > Color Sensor (Money-bill)
- > Paper Sensor (Money-bill)



Ph

#### Absolute Maximum Ratings (Ta=25°C)

	0 (	· ·			
MS	SYMBOL	RATINGS	UNIT	lead-free	R
orward Current (DC)	IF	50	mA		
Forward Current (Pulse)*1	IFP	0.5	A		
Reverse Voltage	VR	5	V		
Power Dissipation	PD	140	mW		
Operating Temperature Range	Topr	-20 ~ +80	℃		
Storage Temperature Range	Tstg	-30 ~ +100	°C		
Junction Temperature	Tj	100	℃		
Lead Soldering Temperature*2	Tls	260	Co		

\*1: Tw=10µsec, T=10msec; \*2: Time 5 Sec max, Position: Up to 3mm from the body.

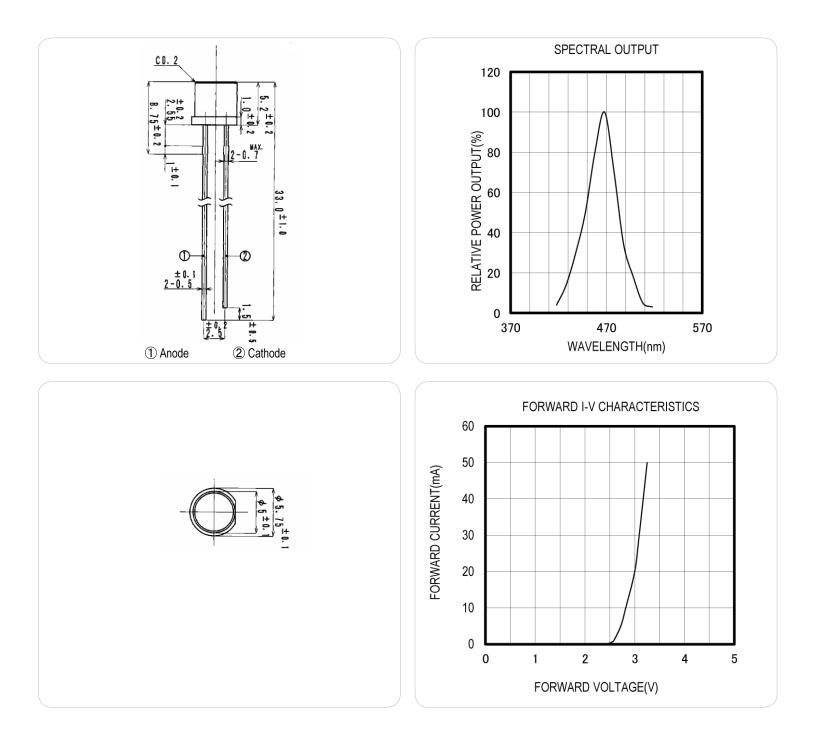
#### Electrical & Optical Characteristics (Ta = 25°C)

		<b>x</b>	,			
ITEMS	SYMBOL	CONDITIONS	MIN	ТҮР	MAX	UNIT
Power Output	PO	IF=20mA		15.0		mW
Forward Voltage	VF	IF=20mA		3.0	3.5	V
Reverse Current	IR	VR=5V			100	μΑ
Peak Emission Wavelength	λρ	IF=20mA		470		nm
Spectral Line Half Width	Δλ	IF=20mA		35		nm
Half Intensity Beam Angle	θ	IF=20mA		±40		deg

2013-04-01



Visible Blue Emitter Product No: MTE4047N2-UB

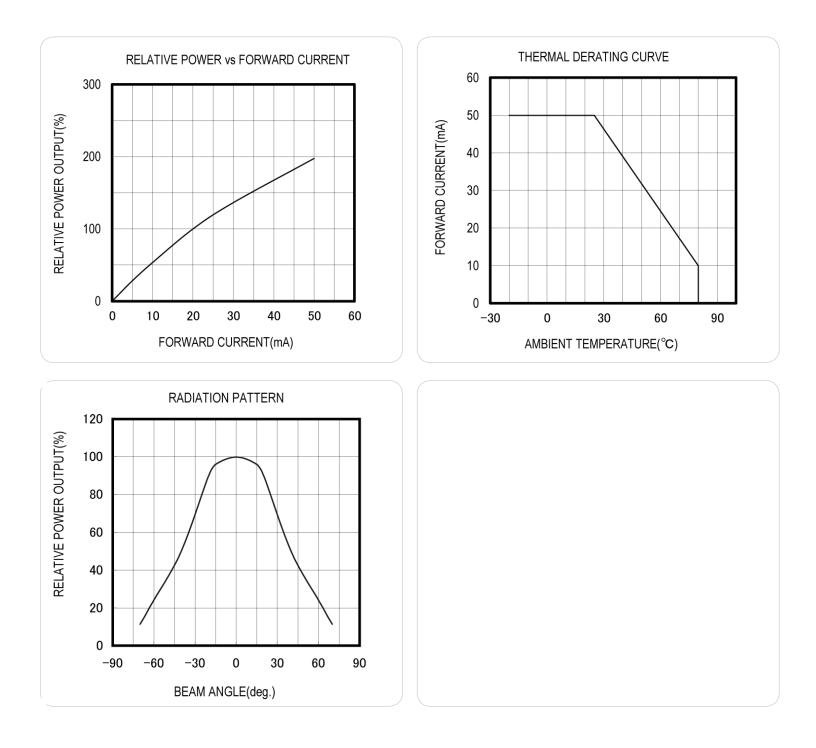


Unit: mm, Tolerance: ±0.2

2



Visible Blue Emitter Product No: MTE4047N2-UB



The information contained herein is subject to change without notice.

2013-04-01

3