

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









Peak Emission Wavelength: 650nm

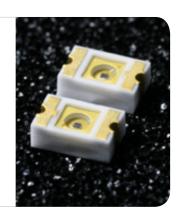
The 650nm Point Source Series is designed for applications requiring high accurary and precision. Custom package solutions and sorting are available.

FEATURES

- > 3.5×2.2×1.24 Flat Top Ceramic SMT
- > Emitting Window Diameter Φ 150μm
- > High Reliability / High Output Power

APPLICATIONS

- > Optical Sensing / Optical Instruments
- > Linear & Rotary Encoder
- > Machine Vision / CCD
- > Optical Switches



Absolute Maximum Ratings (Ta=25°C)					
ITEMS	SYMBOL	RATINGS	UNIT	lead-free ROHS	
Forward Current (DC)	IF	50	mA		
Forward Current (Pulse)*1	IFP	0.3	A		
Reverse Voltage	VR	5	V		
Power Dissipation	PD	120	mW		
Operating Temperature Range	Topr	-20 ~ +80	°C		
Storage Temperature Range	Tstg	-30 ~ +100	°C		

*1: Tw=10µsec, T=10msec.

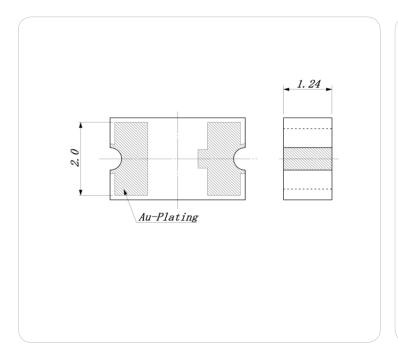
Electrical & Optical Characteristics (Ta = 25°C)

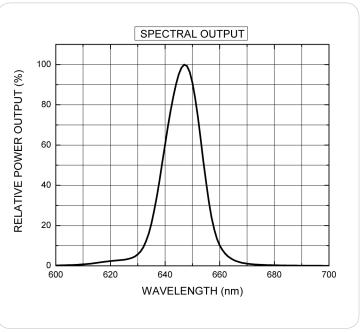
SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
PO	IF=20mA		1.6		mW
VF	IF=20mA		1.9	2.4	V
IR	VR=5V			100	μΑ
λρ	IF=20mA		650		nm
Δλ	IF=20mA		15		nm
θ	IF=20mA		±45		deg
	PO VF IR λρ Δλ	PO IF=20mA VF IF=20mA IR VR=5V λp IF=20mA Δλ IF=20mA	PO IF=20mA VF IF=20mA IR VR=5V λp IF=20mA Δλ IF=20mA	PO IF=20mA 1.6 VF IF=20mA 1.9 IR VR=5V λp IF=20mA 650 $\Delta\lambda$ IF=20mA 15	PO IF=20mA 1.6 VF IF=20mA 1.9 2.4 IR VR=5V 100 λp IF=20mA 650 Δλ IF=20mA 15

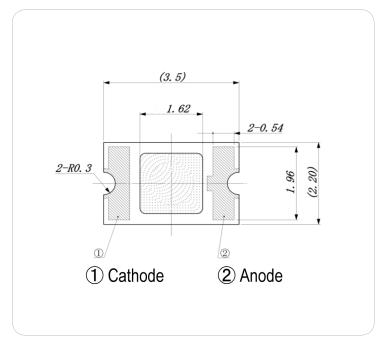
2014-02-15

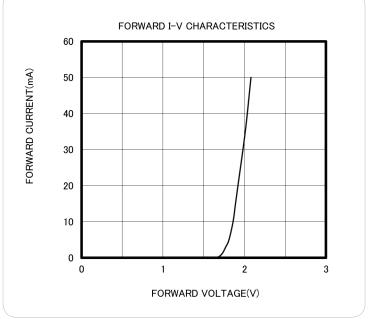










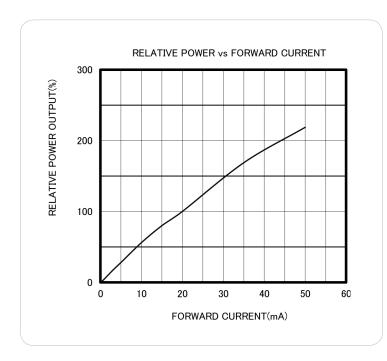


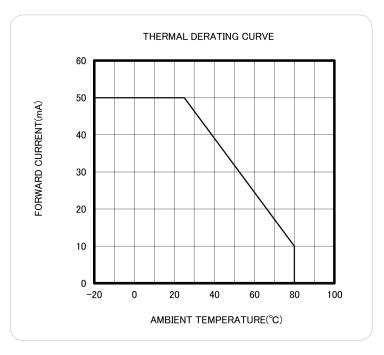
Unit: mm

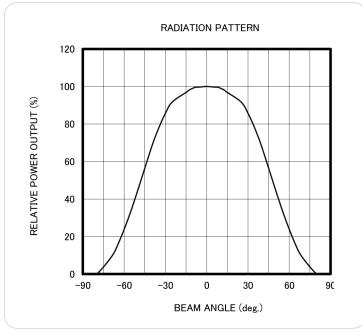
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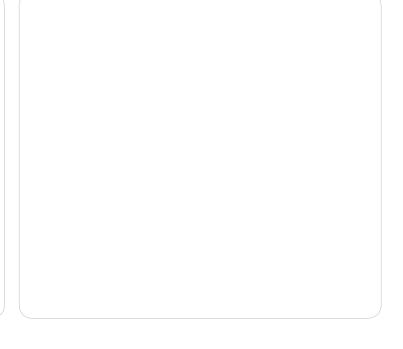












Soldering Conditions:

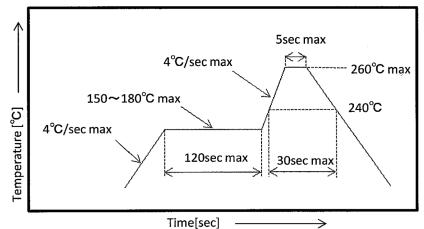
(1) Reflow Soldering

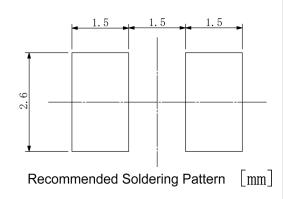
- a. Please implement the following temperature profile.
- b. Please do not handle the product until it has returned to ambient temperature.

(2) Hand Soldering

- a. Soldering tip temperature must be under 320°C.
- b. Soldering must be done within 3 seconds each.
- c. When soldering, do not add pressure to the resin portion.
- d. Please do not handle the product until it has returned to ambient temperature.

Reflow Soldering Temperature-Profile [Pb free Soldering] (Recommend condition)





The information contained herein is subject to change without notice.