



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!



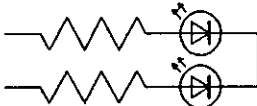
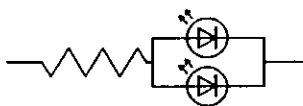
Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

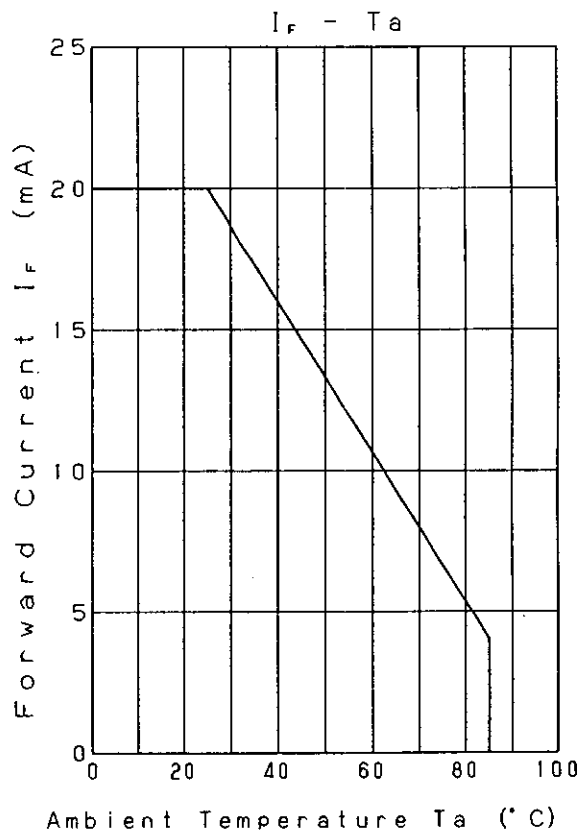
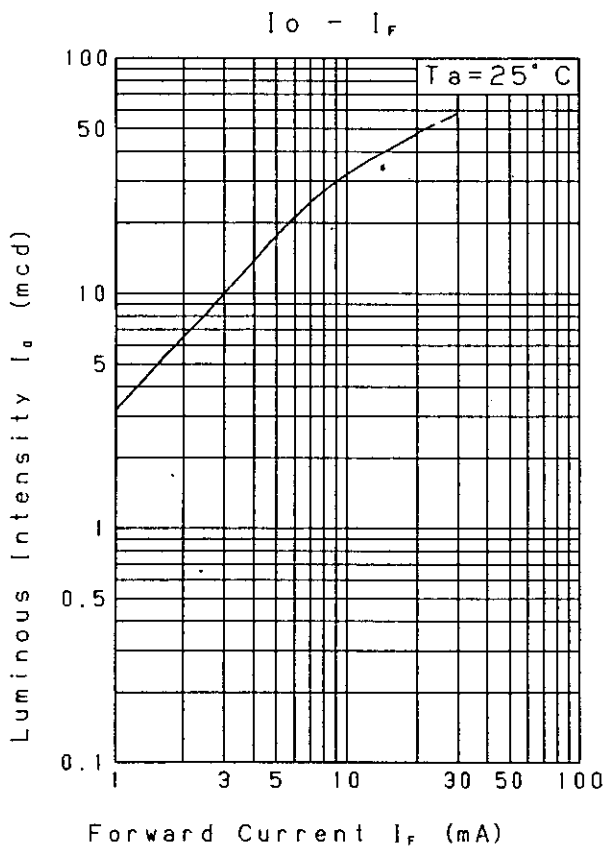
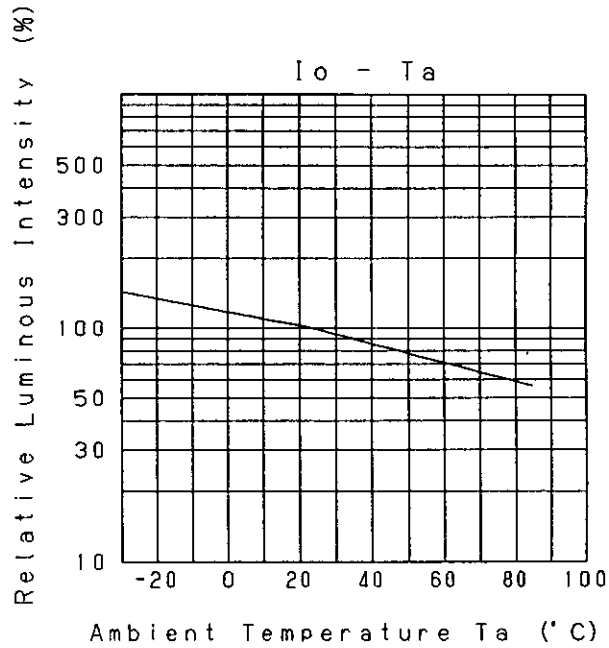
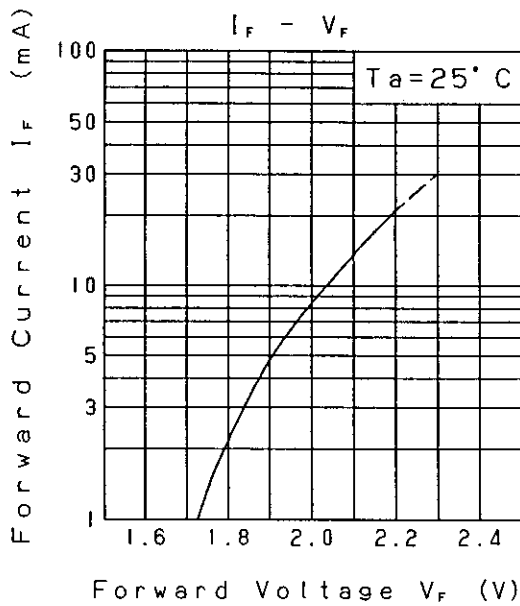
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Approved	Checked	Designed	DEVELOPMENT SPECIFICATION					
		T. Taketa	P/N: LNJ811R83RA				TEMPORARY	
T	Y	P	E	Orange Light Emitting Diode				
APPLICATION			Indicators					
MATERIAL			InGaAlP					
OUTLINE			Attached					
ABSOLUTE MAXIMUM RATINGS			P	*1 I _{FP}	I _{FDC}	V _R	Topr	Tstg
			55	60	20	4	-30~+85	-40~+100
			mW	mA	mA	V	°C	°C
CONDITION			T _a = 25 ± 3°C					
Test Specification								
I t e m	Symbol	C o n d i t i o n	Typ	Limit		Unit		
				Min	Max			
Forward Voltage	V _F	I _F = 10 mA	2.03		2.5	V		
Reverse Leakage Current	I _R	V _R = 4 V			100	μ A		
Luminous Intensity *2	I _O	I _F = 10 mA DC	32	17		mcd		
Peak Emission Wavelength	λ _p	I _F = 10 mA DC	630			nm		
Spectral Line Half Width	Δλ	I _F = 10 mA DC	15			nm		
<p>*1. The Condition of I_{FP} is duty 10 % , Pulse width 1 ms</p> <p>*2. Tolerance of luminous intensity: ±20%.</p> <p>NOTE</p> <p>★1. Please contact the Panasonic local office if you design at low current (below 1mA DC) or pulse current operation and have any questions.</p> <p>★2. Soldering conditions.....Refer to Handling note.</p> <p>★3. Compositions of the lead Cu/Ni/Au plating</p> <p>★4. Beware of destruction by static electricity in handling the LED.</p> <p>★5. Circuit to operate LED.</p>								
						(A) Recommended circuit.		
						(B) The difference of brightness between the LED could be found due to the V _F characteristics of each LED.		
Oct. 18, 2001								

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		T. Takata		



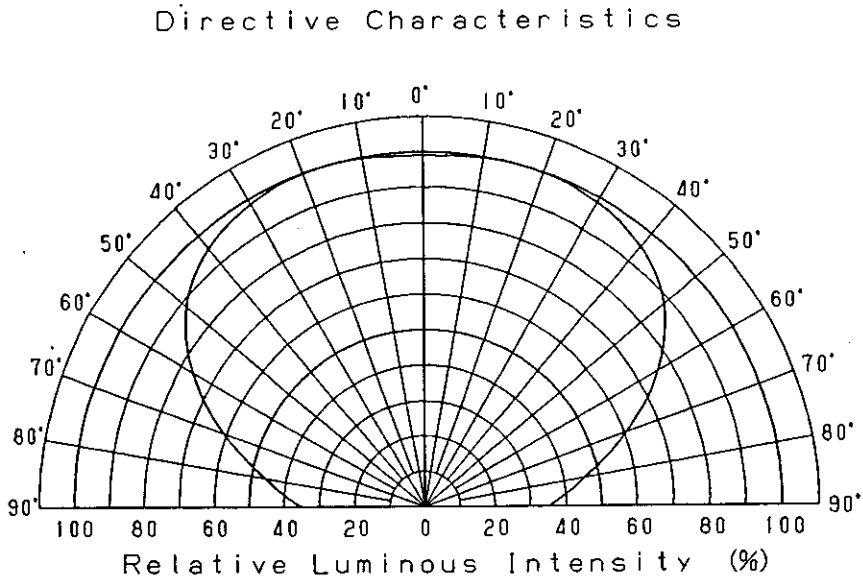
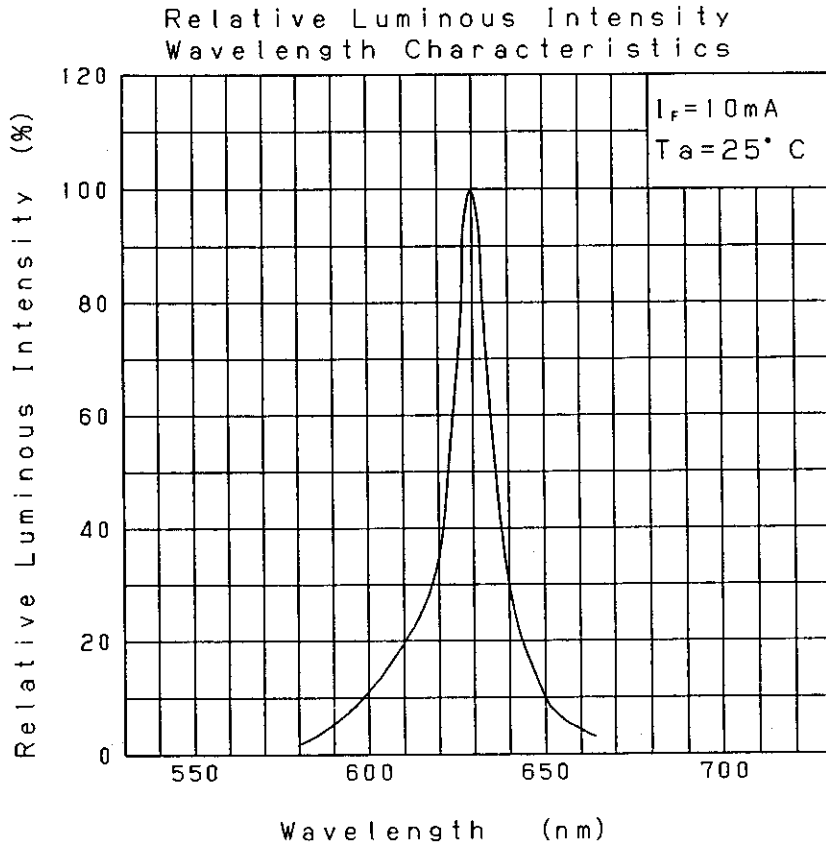
Oct.18.2001			
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Approved	Checked	Designed
		T. Takata

DEVELOPMENT SPECIFICATION

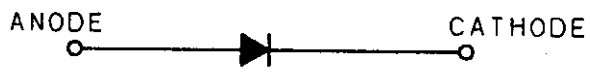
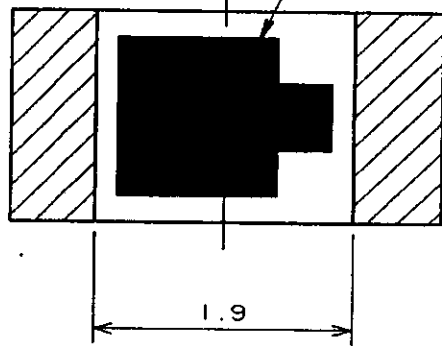
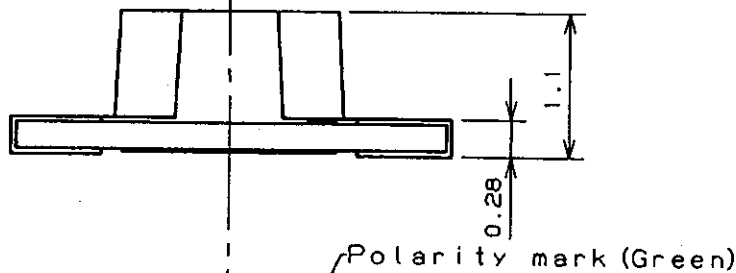
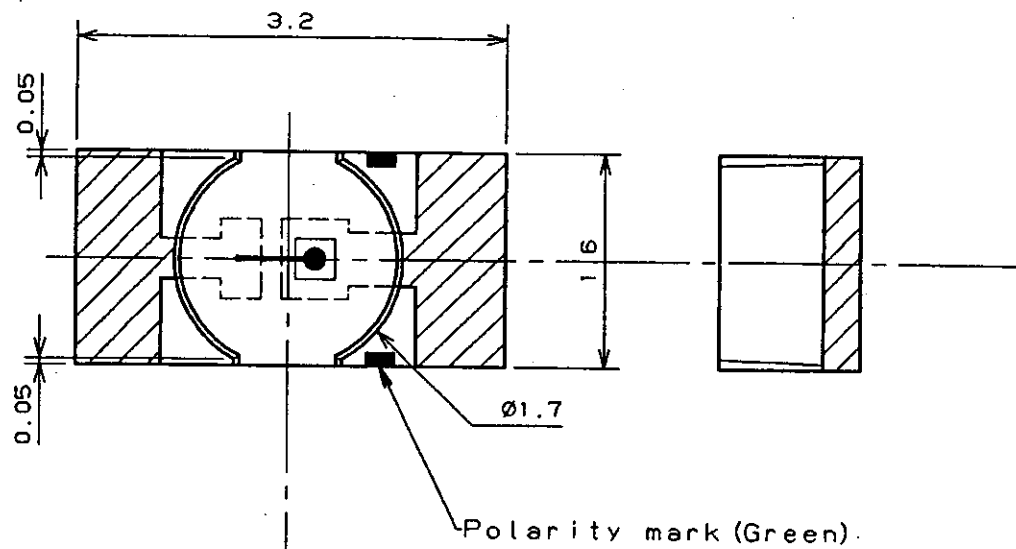
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
TEMPORARY



Oct. 18. 2001

Approved	Checked	Designed	DEVELOPMENT SPECIFICATION (OUTLINE)		
<i>H. Yama</i>	<i>T. Shiba</i>	<i>T. Tabata</i>		P/N: _____	



(NOTE)
 1. Unit: mm
 2. Tolerance unless specified is ± 0.15 .
 3.  indicate Au terminal.

Jan. 14, 1989			
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