



Special Color - White
LR5169

LRC Surface Mount CHIP LEDs Approval Sheet
Model No.: LR5169

INTRODUCTION 3

PRODUCT SPECIFICATION 4

 ATTENTION: ELECTRICSTATIC DISCHARGE (ESD) PROTECTION..... 4

PRODUCT SPECIFICATION 5

 ELECTRO-OPTICAL CHARACTERISTICS 5

 PACKAGE OUTLINE DIMENSION 5

 ABSOLUTE MAXIMUM RATINGS 5

Official Product	LRC PN.. LR5169	Your Part No.		Data Sheet No.
Tentative Product				
Specifications are subject to changes for improvement without advance notice. Proprietary data, drawings, and company confidential all rights reserved.		11/10/2010	Preliminary	Page 2/5

Introduction

- The information contained herein is presented only as a guide for the applications of our products. No responsibility is assumed by LRC for any infringements of intellectual property or other rights of the third parties which may result from it use.
- LRC is continually effort to improve the quality of its products. Nevertheless, semiconductor devices in general can malfunction or fail due to their inherent electrical sensitivity and vulnerability to physical stress. It is the responsibility of the buyer, when utilizing LRC products, to comply with the standards of safety in making a safe design for the entire system, and to avoid situations in which a malfunction or failure of such LRC products cause loss of human life, bodily injury or damage to property.
- The LRC products listed in this document are intended for usage in general electronics (computer, personal equipment, office equipment, industrial robotics, domestic, etc...) These products are neither intended nor warranted for usage in equipment that requires extraordinarily high quality and/or reliability or a malfunction or failure of which may cause loss of human life or bodily injury.
- In developing your designs, please ensure that LRC products are used within specified operating ranges as set forth in the most recent LRC products specifications.
- Also, please keep in mind the precautions listed in this document.

Official Product	LRC PN.. LR5169	Your Part No.		Data Sheet No.
Tentative Product				
Specifications are subject to changes for improvement without advance notice. Proprietary data, drawings, and company confidential all rights reserved.		11/10/2010	Preliminary	Page 3/5

Product Specification

	Specification	Material	Quantity
Iv	2000 mcd above @20mA/ Ta= 25 C° Tolerance: +_10%		
Correlated Color Temperature	Refer to page 7~8 @20mA/ Ta= 25 C°		
Vf	2.9-3.7V (0.1V/bin) @20mA Ta= 25 C° Tolerance: +_0.05V		
Ir	< 100 μA @ VR = 5 V		
Resin	Yellow	Epoxy resin	
Carrier tape	According to EIA 481-1A specs	Conductive black tape	2000pcs per reel
Reel	According to EIA 481-1A specs	Conductive black	
Label	HT standard	Paper	
Packing bag	220x240mm	Aluminum laminated bag/ no-zipper	One reel one bag
Carton	HT standard	Paper	Non-specified

Others:

Every mid-box will be loaded 5 reels. These 5 reels can be different in lot, Iv, lambda, or Vf. Every reel will have an independent label to identify its specification and the mid-box there will have a corresponding label post on it.

ATTENTION: Electricstatic Discharge (ESD) protection


The symbol shown on the page herein to introduce 'Electro-Optical Characteristics'. ESD protection for GaP and AlGaAs based chips is still necessary even though they are safe in low static-electric discharge. Parts built with AlInGaP, GaN, or/and InGaN based chips are STATIC SENSITIVE devices. ESD protection has to be considered and taken in the initial design stage.

If manual work/process is needed, please ensure the device is well protected from ESD during all the process.

Official Product	LRC PN.. LR5169	Your Part No.		Data Sheet No.
Tentative Product				
Specifications are subject to changes for improvement without advance notice. Proprietary data, drawings, and company confidential all rights reserved.		11/10/2010	Preliminary	Page 4/5

Product Specification

Electro-Optical Characteristics

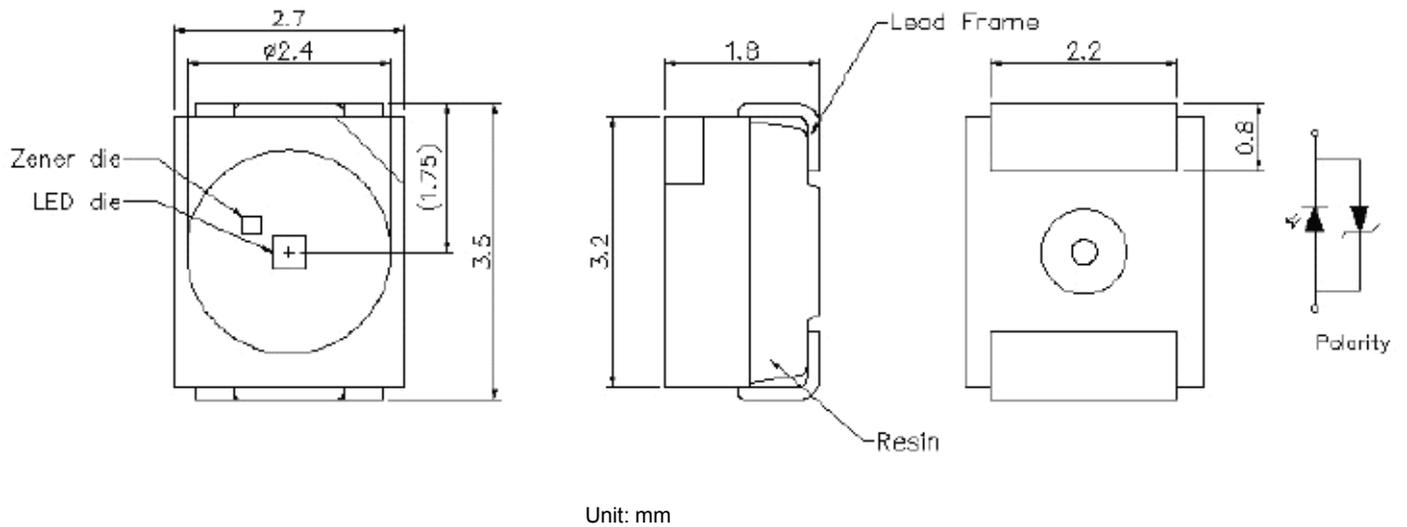
 (I_F @ 20mA, T_a 25 °C)

Product No.	Lighting Color	Material	V _F (V)		Color	I _v (mcd)	
			min	max	Correlated Color Temperature(K)	min	Typ
LR5169	White	InGaN	2.9	3.7	Typ 5500~6500K	2000	2200

Package Outline Dimension

Unit: mm Tolerance: +/-0.1

Outline Dimension:



Soldering terminals may shift in x, y direction.

Absolute Maximum Ratings

 (T_a 25 °C)

Series	P _d (mW)	I _F (mA)	I _{FP} (mA)	I _r (μA) @ V _R = 5 V	T _{OP} (°C)	T _{ST} (°C)
LR5169	111	30	100**	<1μA	-30~+80	-40~+85

 I_{FP}** Condition for I_{FP} is pulse of 1/10 duty and 0.1msec width.

Official Product	LRC PN.. LR5169	Your Part No.		Data Sheet No.
Tentative Product				
Specifications are subject to changes for improvement without advance notice. Proprietary data, drawings, and company confidential all rights reserved.		11/10/2010	Preliminary	Page 5/5

