



# LT5K63-RGB-D77-T01 3.2X2.8MM SMD LED LAMP

## Features

- P-LCC-2 Package
- For use as optical indicator, backlighting
- For optical coupling into light pipes/lenses
- Suitable for most SMT assembly
- Suitable for most soldering method
- Available in reels (12mm tape)

## Absolute Maximum Ratings at $T_A=25^\circ\text{C}$

REVERSE VOLTAGE ( $<100 \mu\text{A}$ ).....	RED 4.0 V
( $<50 \mu\text{A}$ ).....	OTHERS 5.0V
D.C. FORWARD CURRENT.....	RED 30mA
	OTHERS 20mA
PULSE CURRENT (1/10 DUTY CYCLE, 0.1 ms PULSE WIDTH).....	100 mA
OPERATING TEMPERATURE RANGE.....	-40°C TO +105°C
STORAGE TEMPERATURE RANGE .....	-40°C TO +105°C
WAVE SOLDERING TEMPERATURE .....	260°C FOR 3 SEC.
ELECTROSTATIC DISCHARGE THRESHOLD (HBM) .....	1000 V

## PRELIMINARY

## Electrical/optical characteristics at $T_A=25^\circ\text{C}$

PART NUMBER	LED CHIP			LENS COLOR	WAVELENGTH			FORWARD VOLTAGE @20mA(V)			LUMINOUS INTENSITY @20mA(mcd)			VIEW ANGLE $2\theta_{1/2}$ (deg)
	MATERIAL EMITTING COLOR				$\lambda_p$	$\lambda_d$	$\lambda_p$	TYP.	TYP.	TYP.	TYP.	TYP.	TYP.	
	$\lambda_p$	$\lambda_d$	$\lambda_p$											
LT5K63-RGB-D77	AlGaInP	InGaN	InGaN	W.C.	$632 \pm 5$	$525 \pm 10$	$465 \pm 5$	2.1	3.6	3.6	150	300	100	120
	HYPER RED	TRUE GREEN	BLUE		$625 \pm 5$		$470 \pm 5$							
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(1) LENS COLOR:

W.C.....WATER CLEAR

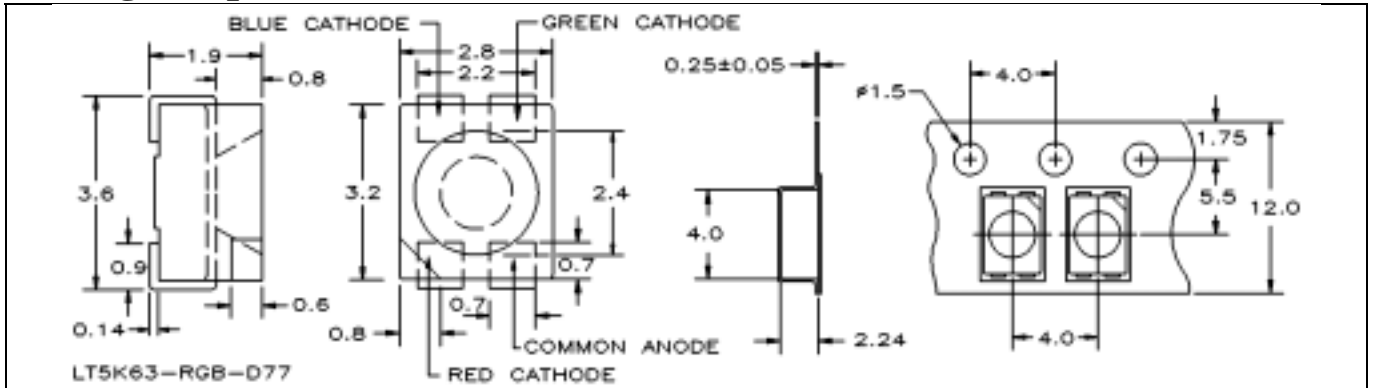
(2) LT5K6X-XXX-T01: TAPE & REELED

(3) LT5K6X-XXX: BULK PACKED

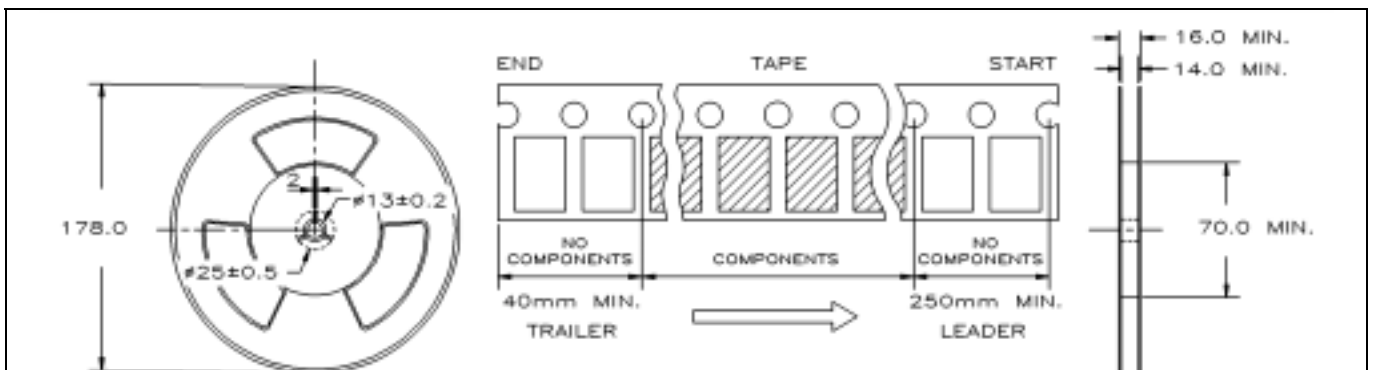
(4) SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

(5) ALL ABOVE COMPONENTS ARE CONSIDERED. DEVIATIONS FROM STATED SPECIFICATIONS WILL REQUIRE A NEW PART NUMBER BE ASSIGNED.

## Package/ Tape/ Reel Dimensions



NOTE: ALL DIMENSIONS ARE IN mm, TOLERANCE IS  $\pm 0.25\text{mm}$  UNLESS OTHERWISE NOTED.

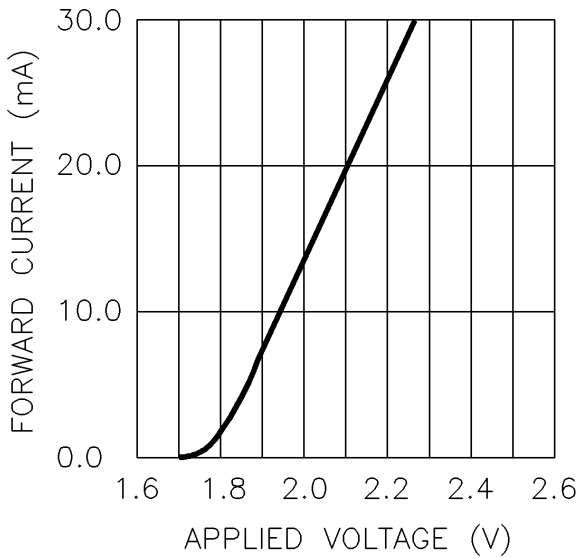


NOTE:

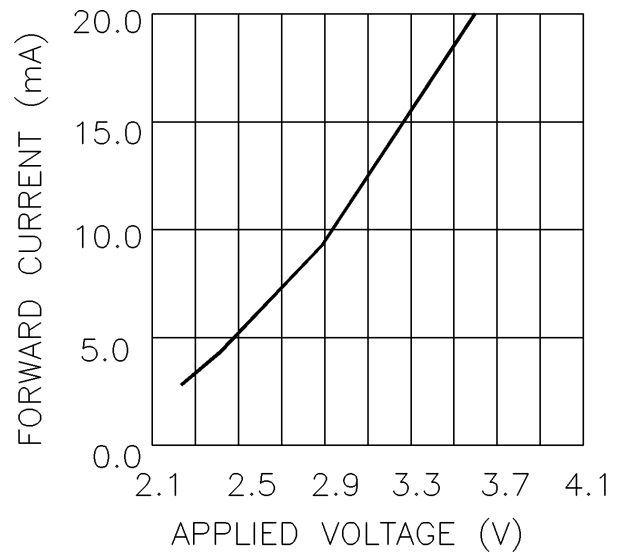
1. ALL DIMENSIONS ARE IN mm, TOLERANCE IS  $\pm 2.0\text{mm}$  UNLESS OTHERWISE NOTED.

2. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

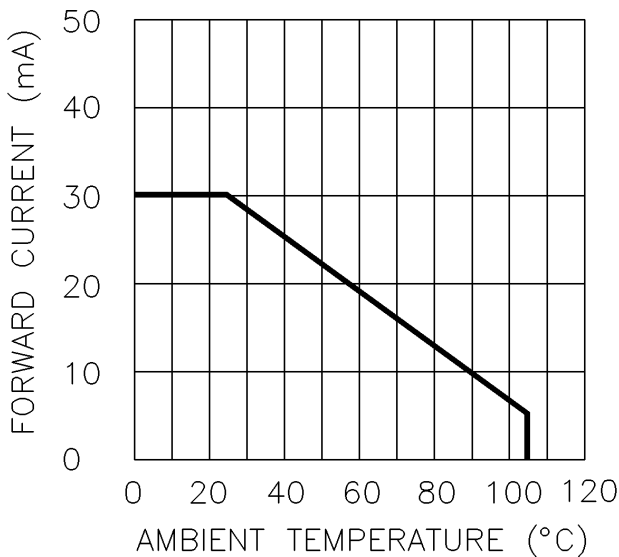
**Forward Current vs. Applied Voltage**  
**For Red**



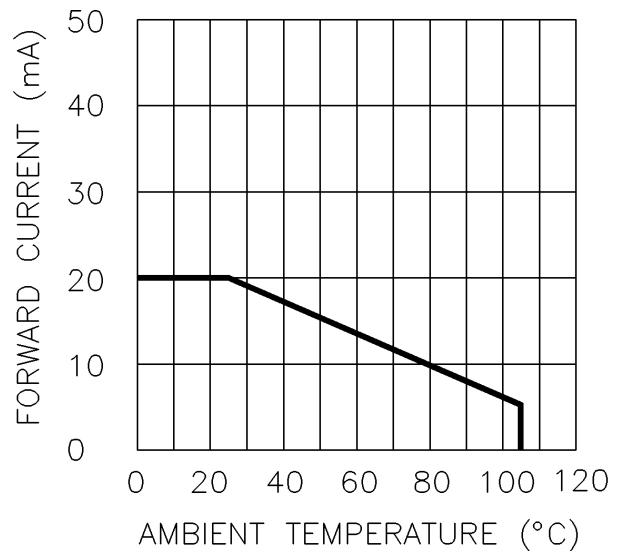
**Forward Current vs. Applied Voltage**  
**For Blue & Green**



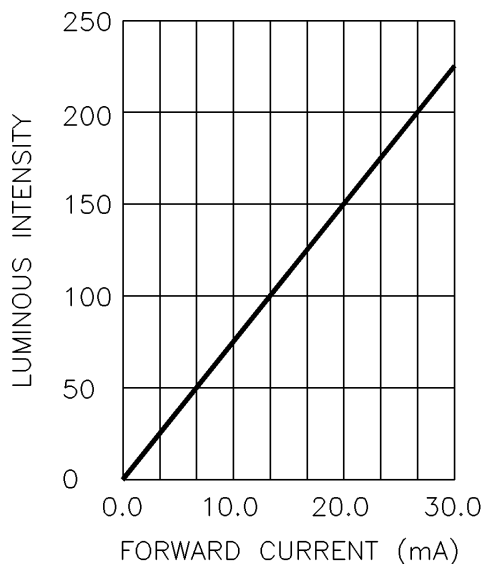
**Forward Current vs. Ambient Temperature**  
**For Red**



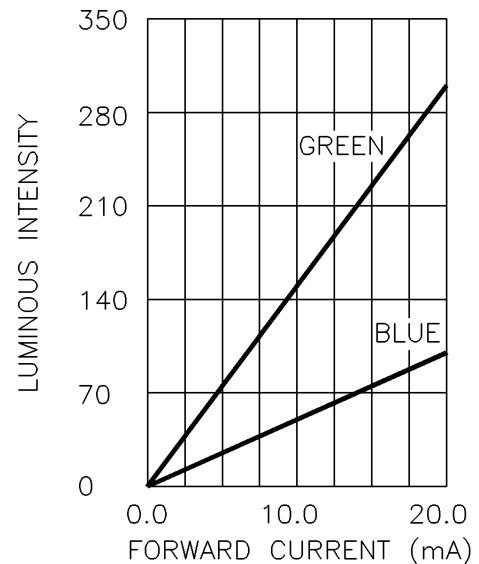
**Forward Current vs. Ambient Temperature**  
**For Blue & Green**

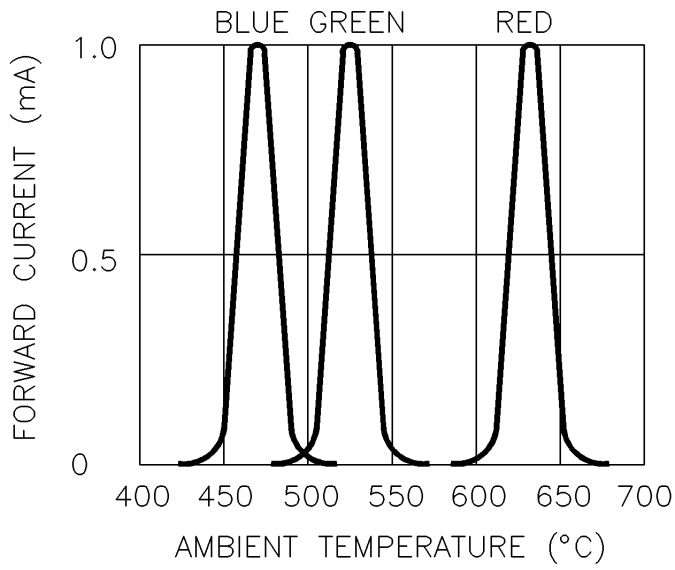
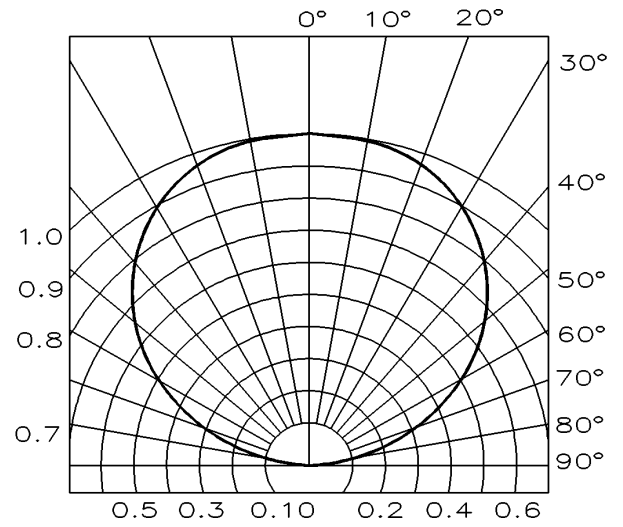


**Luminous Intensity vs. Forward Current**  
**For Red**



**Luminous Intensity vs. Forward Current**  
**For Blue & Green**



**Relative Intensity vs. Wavelength**

**Radiation Pattern**

**Soldering Pad Dimensions**
