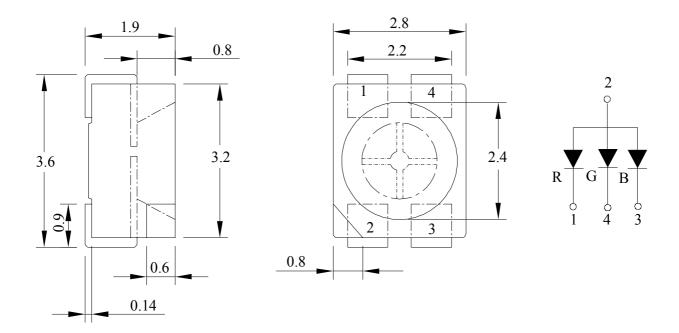


Package Dimensions



Notes:

- 1. All dimensions are in mm.
- 2. Tolerance is ± 0.25 mm unless otherwise noted.

Description

	LED Ch		
Part No.	Material	Emitting Color	Lens Color
	AlGaInP/Sapphire	Hyper Red	
T3S34RGBC-L	InGaN/Sapphire	True Green	Water Clear
	InGaN/Sapphire	Blue	



Absolute Maximum Ratings at Ta=25 $^{\circ}$ C

Parameter	Symbol	Rating			Unit	
1 diameter	Symbol	R	G	В	Omi	
Power Dissipation	PD	75	108	108	mW	
Reverse Voltage	VR	5			V	
D.C. Forward Current	If	30		mA		
Peak Current(1/10Duty Cycle,0.1ms Pulse Width.)	If(Peak)	100		mA		
Operating Temperature Range	Topr.	-40 to +100		$^{\circ}\!\mathbb{C}$		
Storage Temperature Range	Tstg.	-40 to +100		$^{\circ}\!\mathbb{C}$		
Coldonin o Tomas customs	Tsld.	Reflow Soldering: 260°C for 10 sec.				
Soldering Temperature		Hand Soldering: 350°C for 3 sec.				
Electric Static Discharge Threshold (HBM)	ESD	300		V		

Electrical and Optical Characteristics:

Parameter	Symbol	Color	Condition	Min.	Тур.	Max.	Unit
Luminous Intensity	IV	R	If=20mA	370	680		mcd
		G		700	1200		
		В		150	290		
Forward Voltage	Vf	R If=20mA		2.1	2.5	V	
	VI	G&B	II–20IIIA		3.2	3.6	v
Peak Wavelength) n	R 16-20m A		632		nm	
	λр	G&B	If=20mA				nm
Dominant Wavelength	λd	R	If=20mA		625		nm
		G			525		
		В			465		
Reverse Current	Ir	R	Vr=5v			100	μΑ
		G&B				50	
Viewing Angle	2θ1/2		If=20mA		120		deg
Spectrum Line Halfwidth	Δλ	R	If=20mA		20		nm
		G			35		
		В			26		

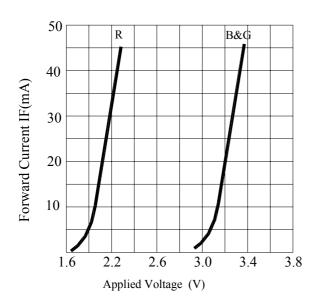
Notes: 1.The datas tested by IS tester.

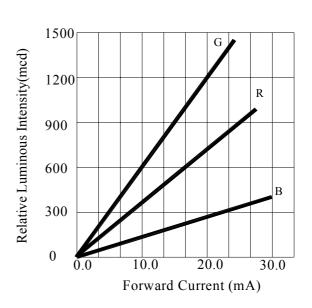
2. Customer's special requirements are also welcome.



Typical Electrical/Optical Characteristic Curves

(25°C Ambient Temperature Unless Otherwise Noted)

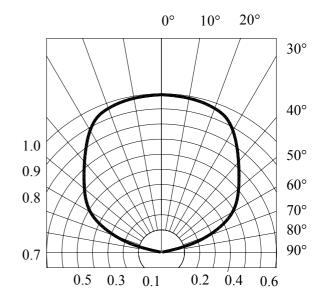




Forward Current VS. Applied Voltage

50 40 Forward Current IF(mA) 30 20 10 0 20 40 60 80 100 120 Ambient Temperature Ta ()

Forward Current VS. Luminous Intensity



Ambient Temperature VS. Forward Current

Radiation Diagram



PRECAUTION IN USE

Storage

Recommended storage environment

Temperature: $5^{\circ}\text{C} \sim 30^{\circ}\text{C} (41^{\circ}\text{F} \sim 86^{\circ}\text{F})$

Humidity: 60% RH Max.

Moisture measures: Please refer to Moisture-sensitive label on reels package bags.

If unused LEDs remain, they should be stored in moisture proof packages, such as sealed container with packages of moisture absorbent material (silica gel). It is also recommended to return the LEDs to the original moisture proof bag and to reseal the moisture proof bag again.

Fold the opened bag firmly and keep in dry environment.

Soldering

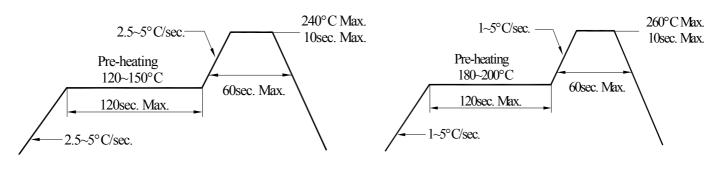
Reflow Soldering			Hand Soldering		
	Lead Solder	Lead – free Solder			
Pre-heat	120~150° ℃	180~200°C	Temperature	350°C Max.	
Pre-heat time	120sec. Max.	120sec. Max.	Soldering time	3sec. Max.	
Peak temperature	240°C Max.	260°C Max.		(one time only)	
Soldering time	10sec. Max.	10sec. Max.			
Condition	refer to	refer to			
	Temperature-	Temperature-			
	profile 1	profile 2			

^{*}After reflow soldering rapid cooling should be avoided.

[Temperature-profile (Surface of circuit board)] Use the conditions shown to the under figure.

<1: Lead Solder>





[Recommended soldering pad design]

Use the following conditions shown in the figure.

