

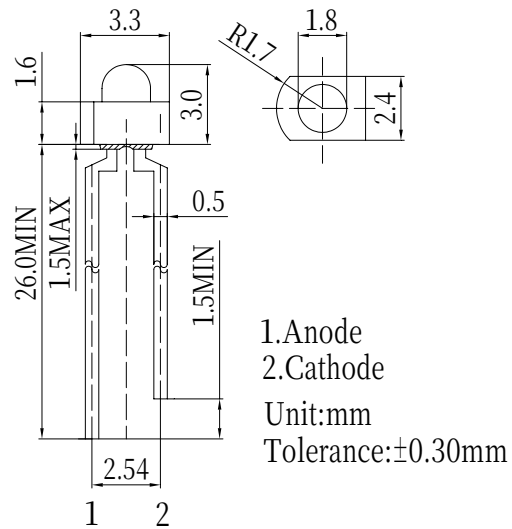
■Features

- High Luminous LEDs
- 1.8mm Standard Directivity
- Superior Weather-resistance
- UV Resistant Epoxy
- Water Clear Type

■Applications

- Traffic Signal
- Backlighting
- Signal and channel letter
- Other Lighting

■Outline Dimension



■Absolute Maximum Rating

(Ta=25°C)

Item	Symbol	Value	Unit
DC Forward Current	I_F	50	mA
Pulse Forward Current*	I_{FP}	120	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	130	mW
Operating Temperature	T_{opr}	-30 ~ +85	°C
Storage Temperature	T_{stg}	-40 ~ +100	°C
Lead Soldering Temperature	T_{sol}	260°C/ 5sec	-

*Pulse width Max.10ms Duty ratio max 1/10

■Electrical -Optical Characteristics

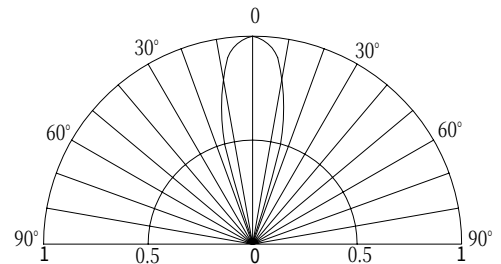
(Ta=25°C)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage	V_F	$I_F=20mA$	1.8	2.1	2.6	V
DC Reverse Current	I_R	$V_R=5V$	-	-	10	μA
Domi. Wavelength*	λ_D	$I_F=20mA$	585	590	595	nm
Luminous Intensity*	I_v	$I_F=20mA$	3000	4000	-	mcd
50% Power Angle	$2\theta_{1/2}$	$I_F=20mA$	-	30	-	deg

*1 Tolerance of dominant wavelength is ±1nm

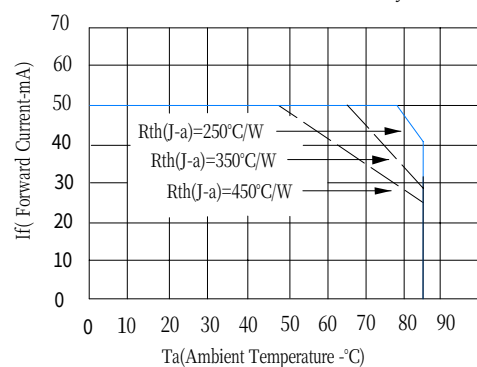
*2 Tolerance of luminous intensity is ±15%

■Directivity



■Maximum Forward Current

Maximum Permissible Forward Current $T_J=115^\circ\text{C}$



■Ranks Combination

Rank (I _F =20mA)	Yellow			
	333	444	555	666
DC Forward Voltage(v)	1.8-2.0	2.0-2.2	2.2-2.4	2.4-2.6

Luminous Intensity (mcd) I_F=20mA

Color	Rank	Luminous Intensity (mcd)
Yellow	O	3000-4200
	P	4200-5800

Rank (I _F =20mA)	Yellow			
	Y51A	Y51B	Y52A	Y52B
Domi. Wavelength* (nm)	585-587.5	587.5-590	590-592.5	592.5-595

LED & Application Technologies

