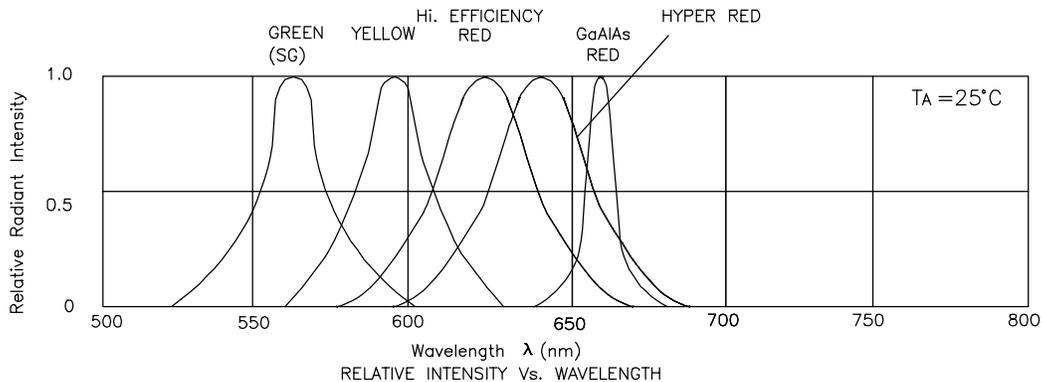


Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20 mA		Viewing Angle
			Min.	Typ.	2θ1/2
L59EGW	HIGH EFFICIENCY RED (GaAsP/GaP)	WHITE DIFFUSED	20	60	60°
	GREEN (GaP)		20	50	
L59EGW/CA	HIGH EFFICIENCY RED (GaAsP/GaP)	WHITE DIFFUSED	3	5	60°
	GREEN (GaP)		3	5	
L59EYW	HIGH EFFICIENCY RED (GaAsP/GaP)	WHITE DIFFUSED	20	60	60°
	YELLOW (GaAsP/GaP)		20	40	
L59GYW	GREEN (GaP)	WHITE DIFFUSED	20	50	60°
	YELLOW (GaAsP/GaP)		20	40	
L59SRSGW/CC	SUPER BRIGHT RED (GaAlAs)	WHITE DIFFUSED	100	200	60°
	SUPER BRIGHT GREEN (GaP)		40	60	
L59SURKSGW	HYPER RED (InGaAlP)	WHITE DIFFUSED	300	500	60°
	SUPER BRIGHT GREEN (GaP)		40	60	
L59EGC	HIGH EFFICIENCY RED (GaAsP/GaP)	WATER CLEAR	100	150	24°
	GREEN (GaP)		50	100	
L59EYC L59YEC	HIGH EFFICIENCY RED (GaAsP/GaP)	WATER CLEAR	100	150	24°
	YELLOW (GaAsP/GaP)		30	60	
L59GYC	GREEN (GaP)	WATER CLEAR	50	100	24°
	YELLOW (GaAsP/GaP)		30	60	
L59SRSGC/CC	SUPER BRIGHT RED (GaAlAs)	WATER CLEAR	300	500	24°
	SUPER BRIGHT GREEN (GaP)		80	100	
L59SURKSGC	HYPER RED (InGaAlP)	WATER CLEAR	900	2000	24°
	SUPER BRIGHT GREEN (GaP)		80	100	

Note:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.



Electrical / Optical Characteristics at T_A=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	High Efficiency Red Green Super Bright Green Yellow Super Bright Red Hyper Red	625 565 565 590 660 640		nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Halfwidth	High Efficiency Red Green Super Bright Green Yellow Super Bright Red Hyper Red	45 30 30 35 20 25		nm	IF=20mA
C	Capacitance	High Efficiency Red Green Super Bright Green Yellow Super Bright Red Hyper Red	12 45 45 10 95 35		pF	VF=0V;f=1MHz
V _F	Forward Voltage	High Efficiency Red Green Super Bright Green Yellow Super Bright Red Hyper Red	2.0 2.2 2.2 2.1 1.85 2.0	2.5 2.5 2.5 2.5 2.5 2.2	V	IF=20mA
I _R	Reverse Current	All		10	uA	VR = 5V

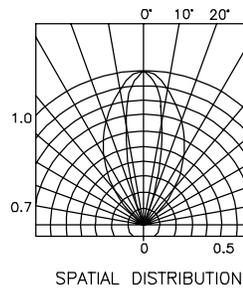
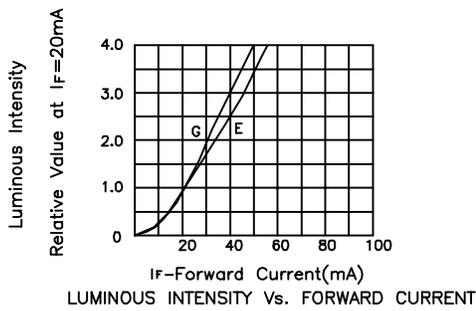
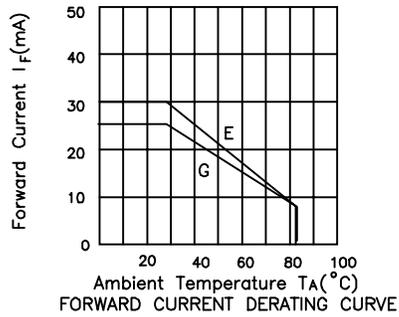
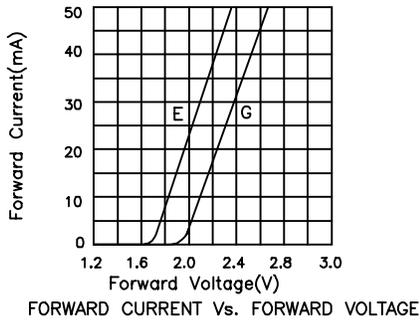
Absolute Maximum Ratings at T_A=25°C

Parameter	High Efficiency Red	Green	Yellow	Super Bright Green	Super Bright Red	Hyper Red	Units
Power dissipation	105	105	105	105	100	170	mW
DC Forward Current	30	25	30	25	30	50	mA
Peak Forward Current [1]	150	150	150	150	150	150	mA
Reverse Voltage	5	5	5	5	5	5	V
Operating/Storage Temperature	-40°C To +85°C						
Lead Soldering Temperature [2]	260°C For 5 Seconds						

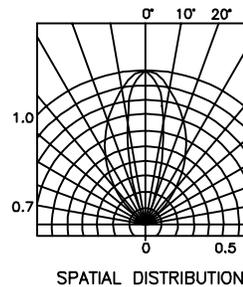
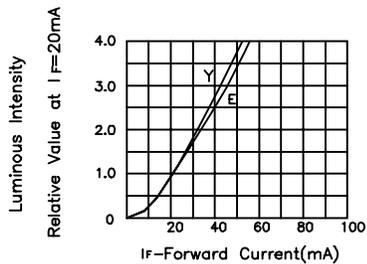
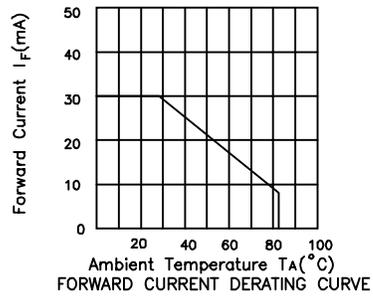
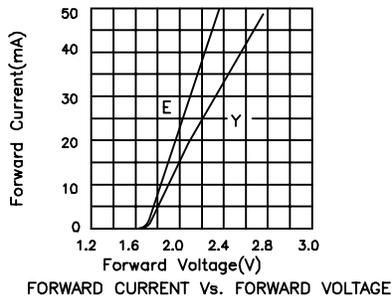
Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 4mm below package base.

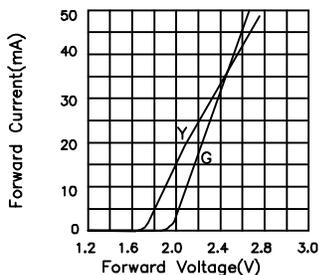
High Efficiency Red / Green L59EGW, L59EGW/CA, L59EGC



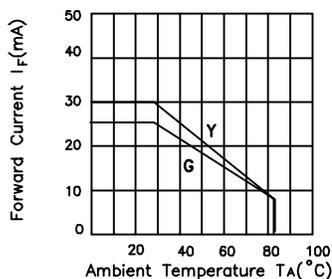
High Efficiency Red / Yellow L59EYW, L59EYC



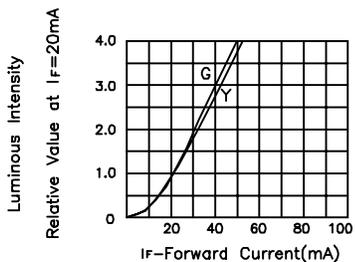
Green / Yellow L59GYW, L59GYC, L59YGC



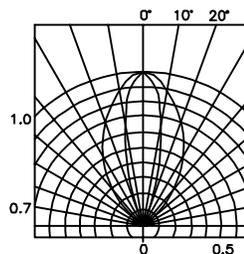
FORWARD CURRENT Vs. FORWARD VOLTAGE



FORWARD CURRENT DERATING CURVE

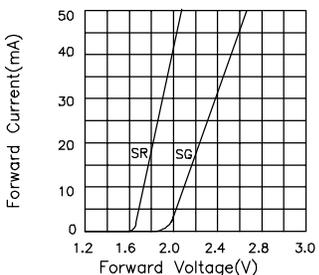


LUMINOUS INTENSITY Vs. FORWARD CURRENT

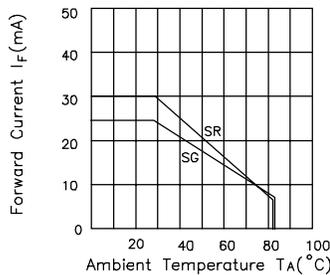


SPATIAL DISTRIBUTION

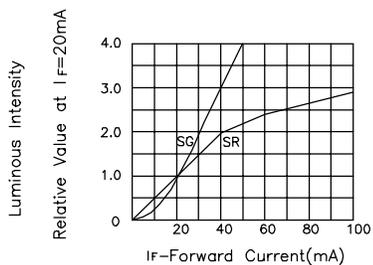
Super Bright Red / Super Bright Green L59SRSGW/CC , L59SRSGC/CC



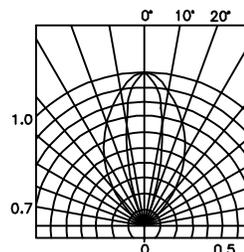
FORWARD CURRENT Vs. FORWARD VOLTAGE



FORWARD CURRENT DERATING CURVE

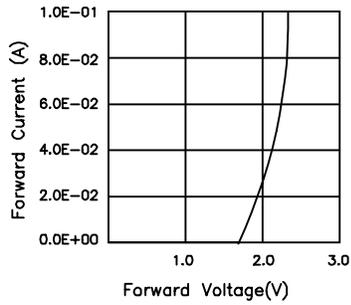


LUMINOUS INTENSITY Vs. FORWARD CURRENT

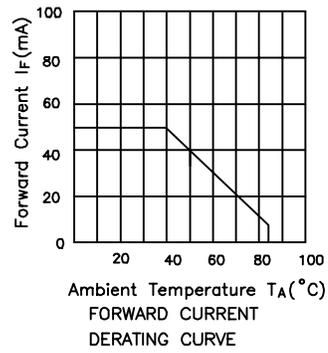


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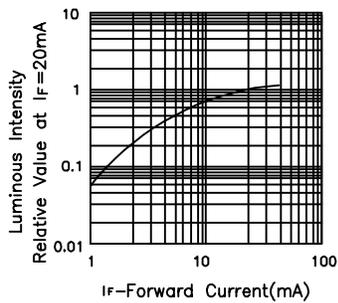
L59SURKSGW , L59SURKSGC Hyper Red



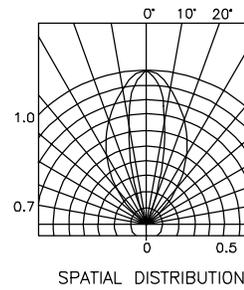
FORWARD CURRENT Vs. FORWARD VOLTAGE



FORWARD CURRENT DERATING CURVE

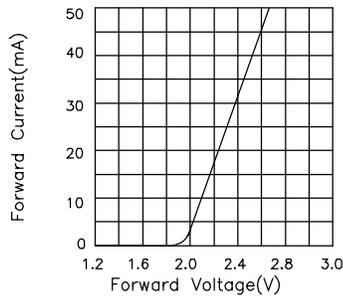


LUMINOUS INTENSITY Vs. FORWARD CURRENT

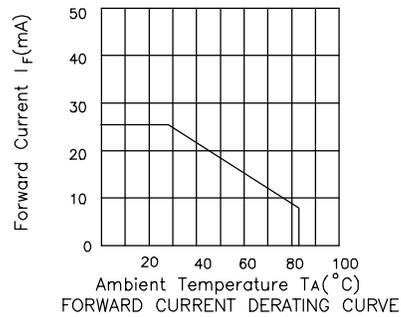


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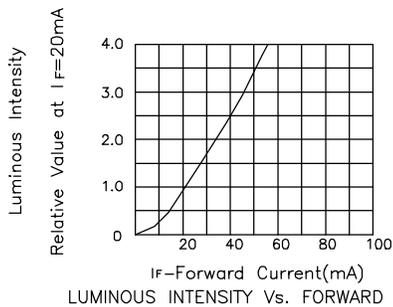
Super Bright Green



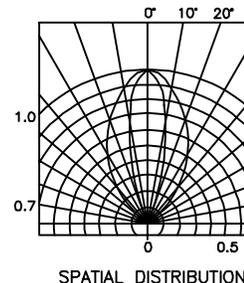
FORWARD CURRENT Vs. FORWARD VOLTAGE



FORWARD CURRENT DERATING CURVE



LUMINOUS INTENSITY Vs. FORWARD CURRENT



SPATIAL DISTRIBUTION