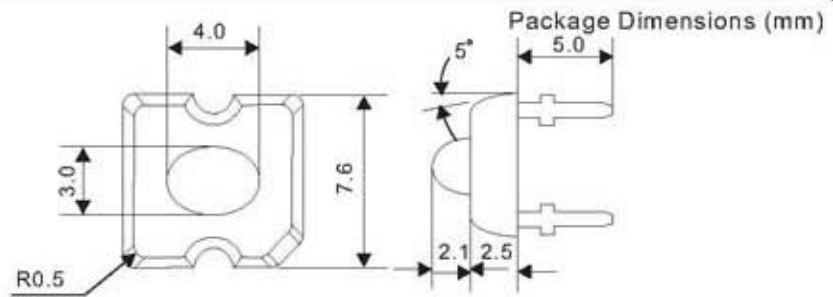


**3.0x4.0mm Super Flux**

 General Tolerance:  $\pm 0.2$   
 Unless note otherwise

Part Number	Chip Material	Lens Type	Emitted Color	Forward Voltage (V)		Dominant Wavelength (nm)		Luminous Intensity (mcd)		Reverse Current (uA)	Viewing Angel (deg)
				Min	Max	Min	Max	Min	Max		
RL-SF110U41	GaAlInP	Water Clear	Super Red	1.7	2.8	635	645	450	4000	20	30/90
RL-SF110Y41	GaAaP	Water Clear	Super Yellow	1.7	2.8	585	595	500	4000	20	30/90
RL-SF110G41	GaAsP	Water Clear	Yellow Green	1.7	2.8	565	575	300	3500	20	30/90
RL-SF110B41	InGaN	Water Clear	Blue	3.0	3.8	465	475	800	6000	20	30/90
RL-SF110PG41	InGaN	Water Clear	Pure Green	3.0	3.8	515	525	800	6000	20	30/90
RL-SF110W41	InGaN	Water Clear	White	3.0	3.8	/	/	800	6000	20	30/90

Test condition	IF=20m	AIF=20m	AIF=20m	AVR=5	VIF=20mA
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**Absolute Maximum Ratings at Ta=25°C**

Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	IF	20	mA
Peak Forward Current*	IFP	160	mA
Reverse Voltage	VR	5	V
Power Dissipation	PD	80	mW
Electrostatic discharge	ESD	400	V
Operation Temperature	Topr	-25~+80	°C
Storage Temperature	Tstg	-40~+80	°C
Lead Soldering Temperature*	Tsol	Max. 230°C for 5sec Max.	

 \*IFP Conditions: Pulse Width  $\leq 10$ msec duty  $\leq 1/10$ 

\*Tsol Conditions: 3mm from the base of the epoxy bulb

**FEATURES:**

- ◆ Low power consumption
- ◆ Wide viewing angle
- ◆ Ideal for backlight and indicator
- ◆ Various colors and lens types available
- ◆ Package: Each Adhesive Pipe 60pcs. Each paper boxes 238 bar

Note: 1. Absolute maximum ratings Ta=25°C.

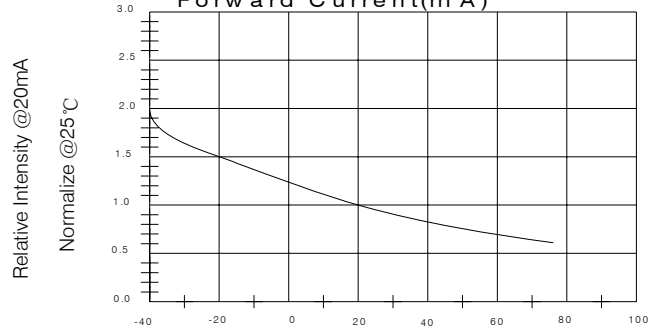
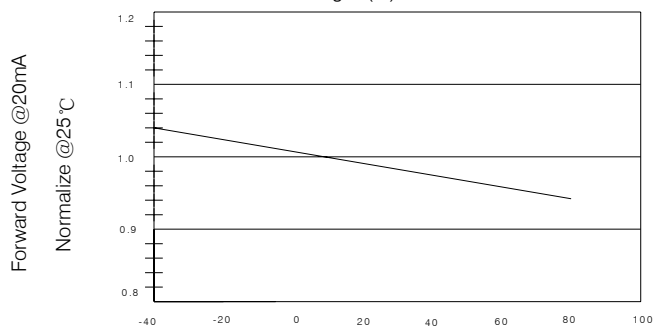
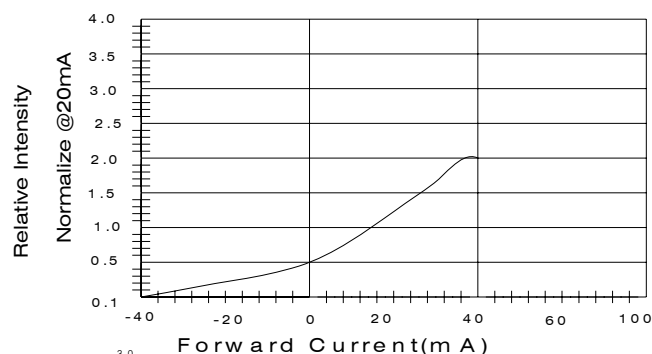
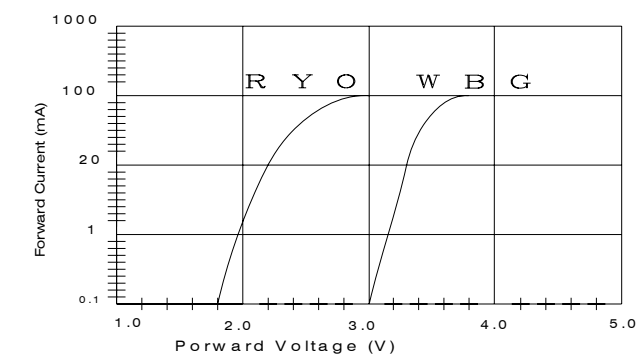
 2. Tolerance of measurement of forward voltage  $\pm 0.1$ V.

 3. Tolerance of measurement of peak Wavelength  $\pm 2.0$ nm.

 4. Tolerance of measurement of luminous intensity  $\pm 15$ %.

**Reliability Test and Test Items And Result**

Test Classification	Test Item	Test Conditions	Test Duration	Sample Size	AC/RE
Life Test	Room Temperature DC Operating Life Test	Ta=25°C ± 5°C, IF=20mA	1000 hrs	30pcs	0/1
Environment Test	Thermal Shock Test	-10°C ± 5°C ↔ +100°C ± 5°C 5min. 10sec. 5min.	50 cycles	30 pcs	0/1
	Temperature Cycle Test	-40°C ± 5°C ↔ +85°C ± 5°C 30min. 5min. 30min.	50 cycles	30 pcs	0/1
	High Temperature & High Humidity Test	Ta=85°C ± 5°C RH =85% ± 0.5 %RH	1000 hrs	30 pcs	0/1
	High Temperature Storage	Ta=100°C ± 5°C	1000 hrs	30 pcs	0/1
	Low Temperature Storage	Ta=-55°C ± 5°C	1000 hrs	30 pcs	0/1
Mechanical Test	Resistance to Soldering Heat	Ta=230°C ± 5°C	5sec.	30 pcs	0/1
	Lead Integrity	Load 2.5N(0.25kgf) 0° ~ 90° ~ 0°	3times	30 pcs	0/1

**Typical Electrical / Optical Characteristics Curves  
25°C Ambient Temperature Unless Otherwise Noted)**


Ambient Temperature °C

Ambient Temperature °C

