

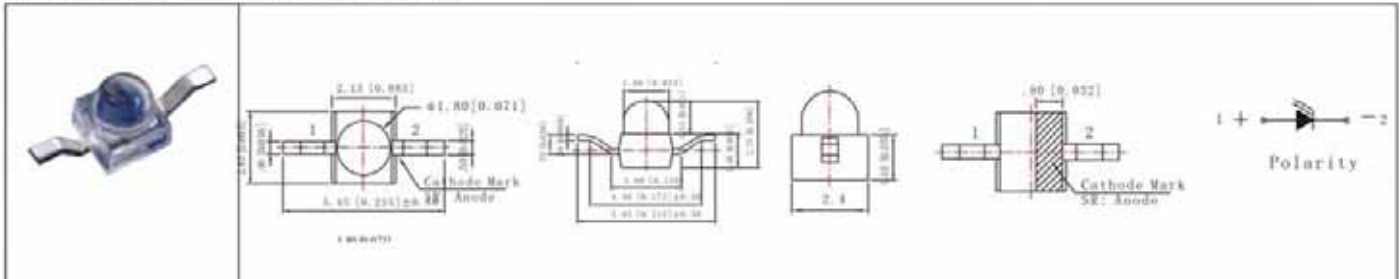
**SMD SURFACE MOUNT CHIP LED**

## Selection Guide-D

Series	Size(L*W*H)	Description
	Unit:mm	
S110	3.20*1.00*1.50	MONO COLOR
S11B	3.20*1.00*1.70	MONO COLOR
S11P	3.00*1.00*2.00	MONO COLOR
S11F	2.10*0.60*1.00	MONO COLOR
S150	3.20*1.60*1.10	MONO COLOR
S15A	3.20*1.60*1.10	MONO COLOR
S15B	3.20*1.60*1.10	MONO COLOR
S15C	3.20*1.25*1.10	MONO COLOR
S170	2.00*1.25*1.10	MONO COLOR
S172	2.00*1.25*0.80	MONO COLOR
S190	1.60*0.80*0.80	MONO COLOR
S192	1.60*0.80*0.60	MONO COLOR
S190P	1.60*0.80*0.80	MONO COLOR
S192P	1.60*0.80*0.60	MONO COLOR
S194	1.60*0.80*0.40	MONO COLOR
S194P	1.60*0.80*0.40	MONO COLOR
S160	1.00*0.50*0.45	MONO COLOR
S350	3.20*1.60*1.40	MONO COLOR
S35E	3.20*1.60*1.10	MONO COLOR
SR160	3.20*1.60*1.90	MONO COLOR
SR180	3.20*2.40*2.50	MONO COLOR
S355	3.00*2.50*1.50	BI-COLOR
S115P	3.00*1.00*2.00	BI-COLOR
S155	3.20*2.70*1.10	BI-COLOR
S155E	3.20*1.25*1.10	BI-COLOR
S195	1.60*1.50*0.70	BI-COLOR
S195E	1.90*1.60*0.80	BI-COLOR
S117P	3.00*1.00*2.00	FULL COLOR
S117E	3.00*1.00*1.50	FULL COLOR
S157B	3.20*2.60*1.10	FULL COLOR
S197B	1.60*1.60*0.35	FULL COLOR
S197F	1.60*1.60*0.35	FULL COLOR

Part Number LL-XXXX	Chip				Lens Color	Vf(V)		Iv (mcd)			Viewing Angle 2 <sup>θ</sup> 1/2
	Material	Emitted Color	$\lambda_p$ (nm) /x	$\lambda_d$ (nm) /y		Typ	Max	IF=mA	Min	Typ	

Subminiature Axial Single Color Chip LED  
2. 15mmX2.40mmX2.75mm Chip LED



AR180SC-2S/TR5	GaAlAs	Super Red	660	640	Water Clear	2.00	2.40	20	250	550	25
AR180VC-V1-2B/TR5	AlGaInP	Hyper Red	632	624		2.00	2.40		1000	2000	
AR180YC-2Y/TR5	GaAsP/GaP	Yellow	592	589		2.00	2.40		250	550	
AR180UYC-Y2-2B/TR5	AlGaInP	Super Yellow	592	589		2.00	2.40		1000	2000	
AR180GC-2A/TR5	GaP	Yellow Green	575	573		2.00	2.40		250	550	
AR180UGC-2B/TR5	AlGaInP	Super Yellow Green	575	573		2.00	2.40		1000	2000	
AR180PGC-G5-1B/TR5	InGaN	Pure Green	520	525		3.40	3.80		1500	3000	
AR180BC-B4-1B/TR5	InGaN	Blue	468	470		3.40	3.80		400	1000	
AR180W-W2-1C/TR5	InGaN	White	x=0.30	y=0.31		Yellow Diffused	3.40		3.80	1500	

1. All dimensions are in millimeters(inches)  
2. Tolerance is  $\pm 0.25\text{mm}(0.01'' )$  unless otherwise noted

# LUCKY LIGHT CHIP LED FOR LEAD FEAME TYPE

Part Number LL-XXXX	Chip				Lens Color	Vf(V)		Iv (mcd)			Viewing Angle 2 <sup>θ</sup> 1/2
	Material	Emitted Color	$\lambda_p$ (nm) /x	$\lambda_d$ (nm) /y		Typ	Max	IF=mA	Min	Typ	

1. 1.80mm Round Subminiature Axial Single Color Chip LED

2. 15mmX2.40mmX2.75mm Chip LED

Part Number	Material	Emitted Color	$\lambda_p$ (nm) /x	$\lambda_d$ (nm) /y	Lens Color	Vf(V)		Iv (mcd)			Viewing Angle 2 <sup>θ</sup> 1/2
						Typ	Max	IF=mA	Min	Typ	
AR180SC-2S	GaAlAs	Super Red	660	640	Water Clear	2.00	2.40	20	250	550	25
AR180VC-V1-2B	AlGaInP	Hyper Red	632	624		2.00	2.40		1000	2000	
AR180YC-2Y	GaAsP/GaP	Yellow	592	589		2.00	2.40		250	550	
AR180UYC-Y2-2B	AlGaInP	Super Yellow	592	589		2.00	2.40		1000	2000	
AR180GC-2A	GaP	Yellow Green	575	573		2.00	2.40		250	550	
AR180UGC-2B	AlGaInP	Super Yellow Green	575	573		2.00	2.40		1000	2000	
AR180PGC-G5-1B	InGaN	Pure Green	520	525		3.40	3.80		1500	3000	
AR180BC-B4-1B	InGaN	Blue	468	470		3.40	3.80		400	1000	
AR180W-W2-1C	InGaN	White	x=0.30	y=0.31		Yellow Diffused	3.40		3.80	1500	

1. 1.80mm Round Subminiature Axial Single Color Chip LED

2. 15mmX2.40mmX2.75mm Chip LED

Part Number	Material	Emitted Color	$\lambda_p$ (nm) /x	$\lambda_d$ (nm) /y	Lens Color	Vf(V)		Iv (mcd)			Viewing Angle 2 <sup>θ</sup> 1/2
						Typ	Max	IF=mA	Min	Typ	
AR180SC-2S/TR2	GaAlAs	Super Red	660	640	Water Clear	2.00	2.40	20	250	550	25
AR180VC-V1-2B/TR2	AlGaInP	Hyper Red	632	624		2.00	2.40		1000	2000	
AR180YC-2Y/TR2	GaAsP/GaP	Yellow	592	589		2.00	2.40		250	550	
AR180UYC-Y2-2B/TR2	AlGaInP	Super Yellow	592	589		2.00	2.40		1000	2000	
AR180GC-2A/TR2	GaP	Yellow Green	575	573		2.00	2.40		250	550	
AR180UGC-2B/TR2	AlGaInP	Super Yellow Green	575	573		2.00	2.40		1000	2000	
AR180PGC-G5-1B/TR2	InGaN	Pure Green	520	525		3.40	3.80		1500	3000	
AR180BC-B4-1B/TR2	InGaN	Blue	468	470		3.40	3.80		400	1000	
AR180W-W2-1C/TR2	InGaN	White	x=0.30	y=0.31		Yellow Diffused	3.40		3.80	1500	

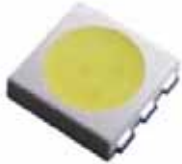
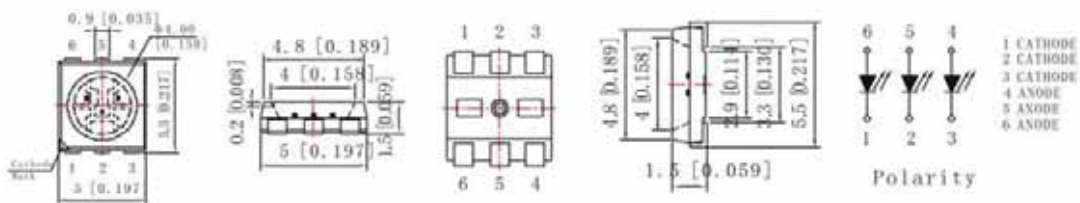
1. All dimensions are in millimeters( inches)

2. Tolerance is  $\pm 0.25\text{mm}(0.01'' )$  unless otherwise noted

Part Number LL-XXXX	Chip				Lens Color	Vf(V)		Iv (mcd)			Viewing Angle 2 <sup>θ</sup> 1/2
	Material	Emitted Color	$\lambda_p$ (nm) /x	$\lambda_d$ (nm) /y		Typ	Max	IF=mA	Min	Typ	


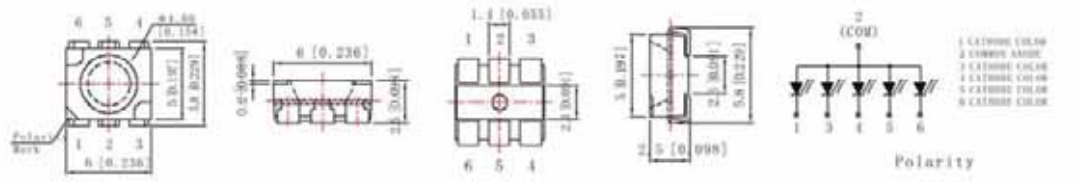
Top View Single Color Chip LED

5.50mm×5.00mm×1.80mm SMD LED

											
	R5050W-W2-3A	InGaN	White	X=0.30	Y=0.31	Yellow Diffused	3.40	3.80	60	4000	5000
R5050W-W6-3A	InGaN	Warm White	X=0.43	Y=0.40	3.40		3.80	3000		4000	


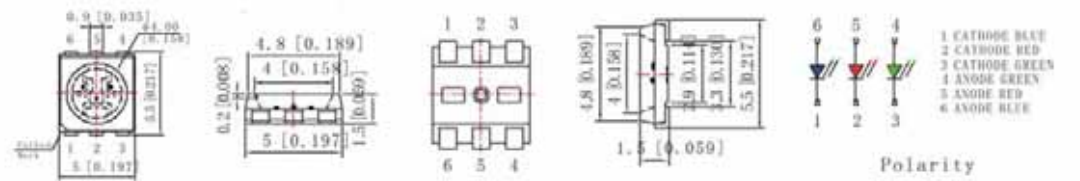
Top View Single Color Chip LED

6.00mm×5.00mm×2.50mm SMD LED

											
	R6050W-W2-1C/TR8	InGaN	White	X=0.30	Y=0.31	Yellow Diffused	3.40	3.80	100	6000	10000

Top View Full Color Chip LED

5.50mm×5.00mm×1.80mm SMD LED


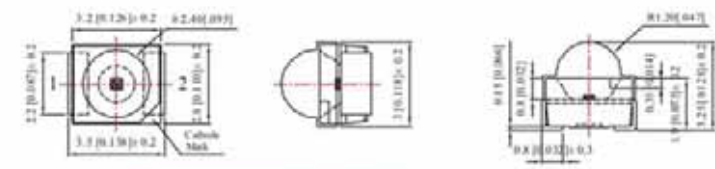

											
	R5050RGB-C-001	AlGaInP	Hyper Red	632	624	Water Clear	2.00	2.40	20	460	720
InGaN		Pure Green	520	525	3.40		3.80	780		1300	
InGaN		Blue	468	470	3.40		3.80	210		350	

1. All dimensions are in millimeters(inches)  
 2. Tolerance is ±0.25mm(0.01" ) unless otherwise noted


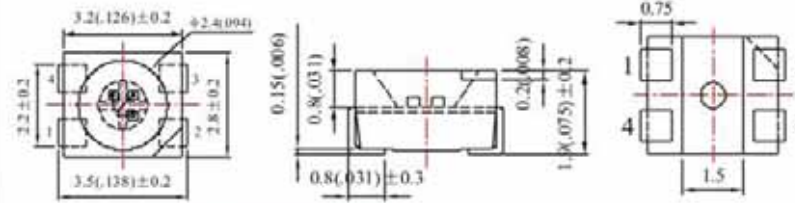
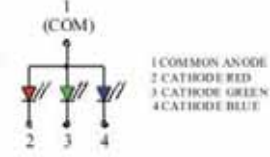
# LUCKY LIGHT SMD FOR REFLECTOR TYPE

Part Number LL-XXXX	Chip				Lens Color	Vf(V)		Iv (mcd)			Viewing Angle 2 <sup>θ</sup> 1/2
	Material	Emitted Color	$\lambda_p$ (nm) /x	$\lambda_d$ (nm) /y		Typ	Max	IF=mA	Min	Typ	

## Top View Single Color Chip LED With Lens 3.50mm×2.80mm×3.25mm SMD LED

			<b>Polarity</b>								
R3528EVC-V1-2B/TR10	AlGaInP	Hyper Red	632	624	Water Clear	2.00	2.40	20	250	400	60
R3528EUYC-Y2-2B/TR10	AlGaInP	Super Yellow	592	589		2.00	2.40		250	400	
R3528EUGC-2B/TR10	InGaN	Super Yellow Green	575	573		2.00	2.40		150	200	
R3528EPGC-G5-1B/TR10	InGaN	Pure Green	520	525		3.40	3.80		1500	2500	
R3528EBC-B4-1B/TR10	InGaN	Blue	468	470		3.40	3.80		225	360	
R3528EW-W2-1C/TR10	InGaN	White	x=0.30	y=0.31		Yellow Diffused	3.40		3.80	1000	

## Top View Full Color Chip LED 3.50mm×2.80mm×1.90mm SMD LED

			<b>Polarity</b>								
R3528RGBC-008-B	AlGaInP	Hyper Red	632	624	Water Clear	2.00	2.40	20	150	250	120
	InGaN	Pure Green	520	525		3.40	3.80		300	550	
	InGaN	Blue	468	470		3.40	3.80		150	250	

- All dimensions are in millimeters(inches)
- Tolerance is  $\pm 0.25\text{mm}(0.01'' )$  unless otherwise noted

Part Number LL-XXXX	Chip				Lens Color	Vf(V)		Iv (mcd)			Viewing Angle 2 <sup>θ</sup> 1/2
	Material	Emitted Color	$\lambda_p$ (nm) /x	$\lambda_d$ (nm) /y		Typ	Max	IF=mA	Min	Typ	

Mini Top View Single Color Chip LED  
3.00mmx2.20mmx1.50mm SMD LED

											<p><b>Polarity</b></p>
	R3021SC-2S/TR2	GaAlAs	Super Red	660	640	Water Clear	2.00	2.40	20	6	
R3021VC-V1-2B/TR2	AlGaInP	Hyper Red	632	624	2.00		2.40	25		45	
R3021YC-2Y/TR2	GaAsP/GaP	Yellow	592	589	2.00		2.40	5		8	
R3021UYC-Y2-2B/TR2	AlGaInP	Super Yellow	592	589	2.00		2.40	25		45	
R3021GC-2A/TR2	GaP	Yellow Green	575	573	2.00		2.40	5		8	
R3021UGC-2B/TR2	AlGaInP	Super Yellow Green	575	573	2.00		2.40	15		30	
R3021PGC-G5-1B/TR2	InGaN	Pure Green	520	525	3.40		3.80	80		200	
R3021BC-B4-1B/TR2	InGaN	Blue	468	470	3.40		3.80	20		40	
R3021W-W2-1C/TR2	InGaN	White	x=0.30	y=0.31	Yellow Diffused		3.40	3.80		80	200

Top View Single Color Chip LED  
3.50mmx2.80mmx1.90mm SMD LED

											<p><b>Polarity</b></p>
	R3528VC-V1-2B	AlGaInP	Hyper Red	632	624	Water Clear	2.00	2.40	20	80	
R3528UYC-Y2-2B	AlGaInP	Super Yellow	592	589	2.00		2.40	60		120	
R3528PGC-G5-1B	InGaN	Pure Green	520	525	3.40		3.80	200		500	
R3528BC-B4-1B	InGaN	Blue	468	470	3.40		3.80	100		150	
R3528W-W2-1D	InGaN	White	x=0.30	y=0.31	Yellow Diffused		3.40	3.80		1000	1400

1. All dimensions are in millimeters(inches)  
2. Tolerance is  $\pm 0.25\text{mm}(0.01'' )$  unless otherwise noted

# LUCKY LIGHT SMD FOR REFLECTOR TYPE

Part Number LL-XXXX	Chip				Lens Color	Vf(V)		Iv (mcd)			Viewing Angle 2 <sup>θ</sup> 1/2
	Material	Emitted Color	$\lambda_p$ (nm) /x	$\lambda_d$ (nm) /y		Typ	Max	IF=mA	Min	Typ	

## Mini Top View Single Color SMD LED

2.00mm×1.40mm×1.35mm

Part Number	Material	Emitted Color	$\lambda_p$ (nm) /x	$\lambda_d$ (nm) /y	Lens Color	Vf(V)		Iv (mcd)			Viewing Angle 2 <sup>θ</sup> 1/2
						Typ	Max	IF=mA	Min	Typ	
R2014VC-V1-2B	AlGaInP	Hyper Red	632	624	Water Clear	2.00	2.40	20	45	90	120
R2014UYC-Y2-2B	AlGaInP	Super Yellow	592	589		2.00	2.40		40	120	
R2014UGC-2B	AlGaInP	Super Yellow Green	575	573		2.00	2.40		20	35	
R2014PGC-G5-1B	InGaN	Pure Green	520	525		3.40	3.80		200	450	
R2014BC-B4-1B	InGaN	Blue	468	470		3.40	3.80		150	350	
R2014W-W2-1C	InGaN	White	x=0.30	y=0.31		Yellow Diffused	3.40		3.80	400	

## Mini Top View Single Color SMD LED

3.00mm×2.10mm×1.50mm

Part Number	Material	Emitted Color	$\lambda_p$ (nm) /x	$\lambda_d$ (nm) /y	Lens Color	Vf(V)		Iv (mcd)			Viewing Angle 2 <sup>θ</sup> 1/2
						Typ	Max	IF=mA	Min	Typ	
R3021SC-2S	GaAlAs	Super Red	660	640	Water Clear	2.00	2.40	20	6	12	130
R3021VC-V1-2B	AlGaInP	Hyper Red	632	624		2.00	2.40		25	45	
R3021YC-2Y	GaAsP/GaP	Yellow	592	589		2.00	2.40		5	8	
R3021UYC-Y2-2B	AlGaInP	Super Yellow	592	589		2.00	2.40		25	45	
R3021GC-2A	GaP	Yellow Green	575	573		2.00	2.40		5	8	
R3021UGC-2B	AlGaInP	Super Yellow Green	575	573		2.00	2.40		15	30	
R3021PGC-G5-1B	InGaN	Pure Green	520	525		3.40	3.80		80	200	
R3021BC-B4-1B	InGaN	Blue	468	470		3.40	3.80		20	40	
R3021W-W2-1C	InGaN	White	x=0.30	y=0.31		Yellow Diffused	3.40		3.80	80	

(Ta=25°C)

\*\*Condition for IFP is pulse of 1/10 duty and 0.1 msec width

Part Number LL-XXXX	Chip				Lens Color	Vf(V)		Iv (mcd)			Viewing Angle 2θ 1/2
	Material	Emitted Color	$\lambda p(\text{nm})$ /x	$\lambda d(\text{nm})$ /y		Typ	Max	IF=mA	Min	Typ	

Full Color SMD LED  
1.60mm×1.60mm×0.35mm

S197BRGBC											
	AlGaInP	Hyper Red	632	624	Water Clear	2.0	2.4	20	70	100	120
	InGaN	Pure Green	520	525		3.4	3.8		100	180	
	InGaN	Blue	468	470		3.4	3.8		25	50	

Full Color SMD LED  
1.60mm×1.60mm×0.35mm

S197FRGBC											
	AlGaInP	Hyper Red	632	624	Water Clear	2.00	2.40	20	70	100	120
	InGaN	Pure Green	520	525		3.40	3.80		100	180	
	InGaN	Blue	468	470		3.40	3.80		25	50	

Side View Single Color SMD LED  
4.00mmX0.80mmX1.40mm

S335W-W2-1C									
	InGaN	White	X=0.30 y=0.31	Yellow Diffused	3.40	3.80	20	800	1000

Side View Single Color SMD LED  
3.80mmX0.60mmX1.20mm

V020W-W2-1C									
	InGaN	White	X=0.30 y=0.31	Yellow Diffused	3.40	3.80	20	1000	1200

(Ta=25°C)


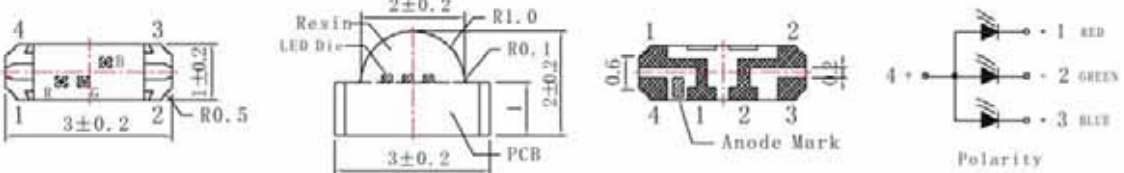
\*\*Condition for IFP is pulse of 1/10 duty and 0.1 msec width




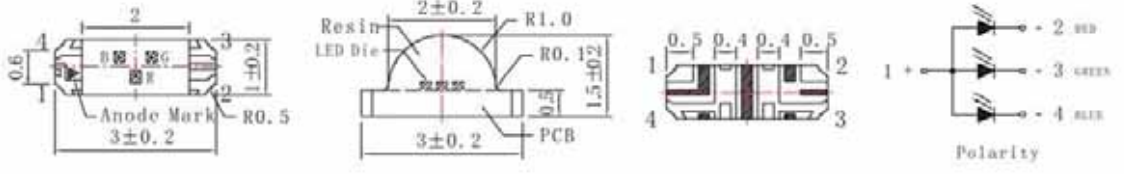
# LUCKY LIGHT SMD WITH TRI-COLOR

Part Number LL-XXXX	Chip				Lens Color	Vf(V)		Iv (mcd)			Viewing Angle 2 <sup>θ</sup> 1/2
	Material	Emitted Color	$\lambda_p$ (nm) /x	$\lambda_d$ (nm) /y		Typ	Max	IF=mA	Min	Typ	

Full Color SMD LED With Right Lens  
3.00mm×1.00mm×2.00mm


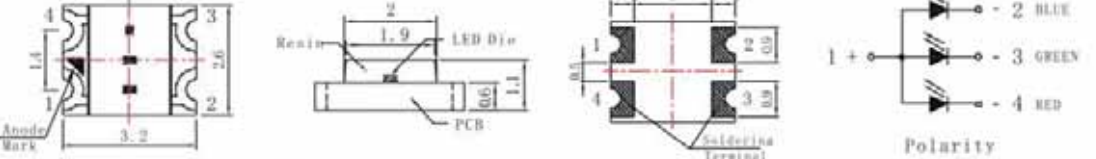
												
	S117PRGBC	AlGaInP	Hyper Red	632	624	Water Clear	2.00	2.40	20	50	80	120
		InGaN	Pure Green	520	525		3.40	3.80		125	160	
		InGaN	Blue	468	470		3.40	3.80		25	40	

Full Color SMD LED With Right Lens  
3.00mm×1.00mm×1.50mm

												
	S117ERGBC	AlGaInP	Hyper Red	632	624	Water Clear	2.00	2.40	20	60	90	100
		InGaN	Pure Green	520	525		3.40	3.80		125	180	
		InGaN	Blue	468	470		3.40	3.80		30	50	

Full Color SMD LED

3.20mm×2.60mm×1.10mm



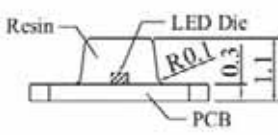
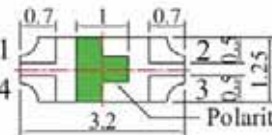
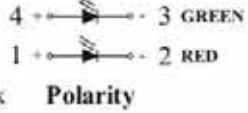
												
	S157BRGBC	AlGaInP	Hyper Red	632	624	Water Clear	2.00	2.40	20	28	50	120
		InGaN	Pure Green	520	525		3.40	3.80		125	160	
		InGaN	Blue	468	470		3.40	3.80		25	40	

(Ta=25°C)


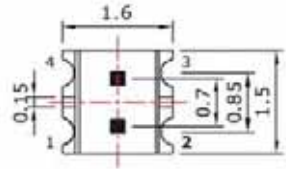
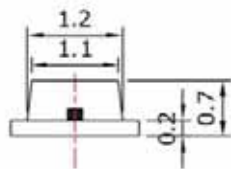
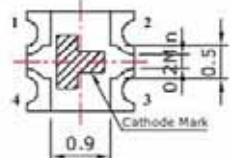
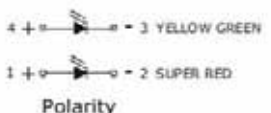
\*\*Condition for IFP is pulse of 1/10 duty and 0.1 msec width

Part Number LL-XXXX	Chip				Lens Color	Vf(V)		Iv (mcd)			Viewing Angle 2θ 1/2
	Material	Emitted Color	$\lambda_p$ (nm) /x	$\lambda_d$ (nm) /y		Typ	Max	IF=mA	Min	Typ	


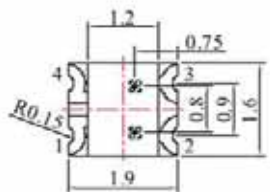
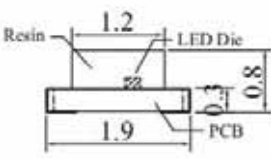
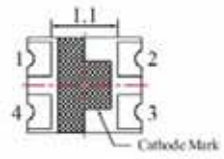
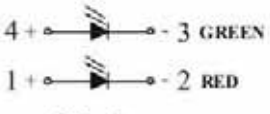
Reverse Package Bi-Color SMD LED  
3.20mm×1.25mm×1.10mm

											
	S155EVUGC-2B	AlGaInP	Hyper Red	632	624	Water	2.00	2.40	20	40	75
	AlGaInP	Super Yellow Green	575	573	Clear	2.00	2.40	20		55	

Bi-Color SMD LED  
1.60mm×1.50mm×0.70mm

											
	S195SGC-2S-2A	GaAlAs	Super Bright Red	660	640	Water	2.00	2.40	20	7	12
	GaP	Yellow Green	575	573	2.00		2.40	5		8	
S195VUGC-2B	AlGaInP	Hyper Red	632	624	Clear	2.00	2.40	20	20	40	140
	AlGaInP	Super Yellow Green	575	573		2.00	2.40		10	25	

0706 Package Bi-Color SMD LED  
1.90mm×1.60mm×0.80mm

											
	S195EVUGC-2B	AlGaInP	Hyper Red	632	624	Water	2.00	2.40	20	20	40
	AlGaInP	Super Yellow Green	575	573	Clear	2.00	2.40	10		25	


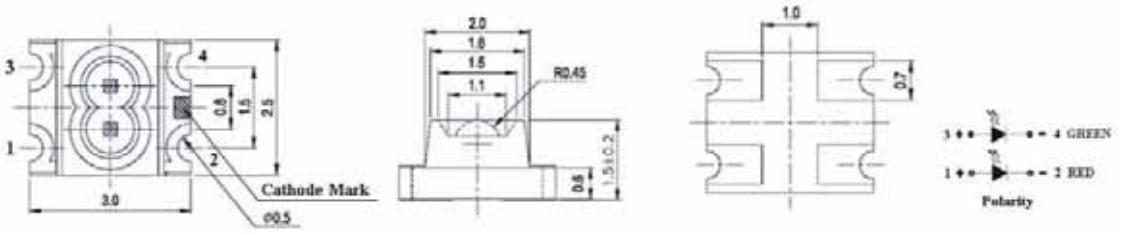
(Ta=25°C)

\*\*Condition for IFP is pulse of 1/10 duty and 0.1 msec width


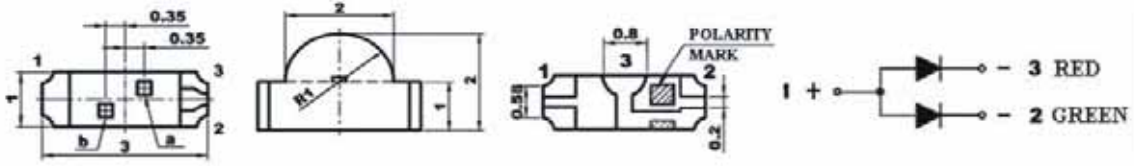
# LUCKY LIGHT SMD WITH BI-COLOR (MULTI-COLOR)

Part Number LL-XXXX	Chip				Lens Color	Vf(V)		Iv (mcd)			Viewing Angle 2 <sup>θ</sup> 1/2
	Material	Emitted Color	$\lambda_p(\text{nm})$ /x	$\lambda_d(\text{nm})$ /y		Typ	Max	IF=mA	Min	Typ	


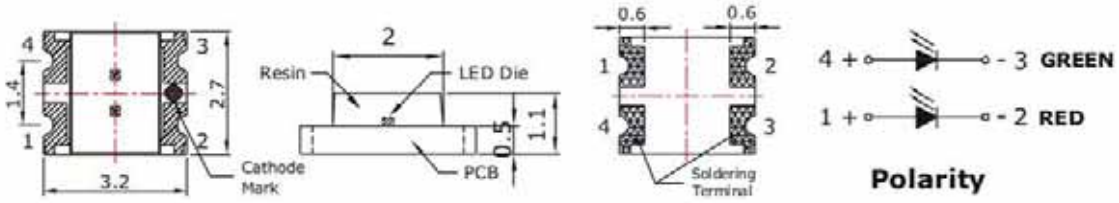
1210 Package Bi-Color With Inner Lens  
3.00mm×2.50mm×1.50mm SMD LED

											
	S355VUGC-2B	AlGaInP	Hyper Red	632	624	Water Clear	2.00	2.40	20	50	125
	AlGaInP	Super Yellow Green	575	573		2.00	2.40	30		55	

1204 Package Bi-Color With Right Angle Lens  
3.00mm×1.00mm×2.00mm SMD LED

											
	S115PVUGC-2B	AlGaInP	Hyper Red	632	624	Water Clear	2.00	2.40	20	30	50
	AlGaInP	Super Yellow Green	575	573		2.00	2.40	20		35	

1210 Package Bi-Color  
3.20mm×2.70mm×1.10mm SMD LED

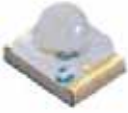
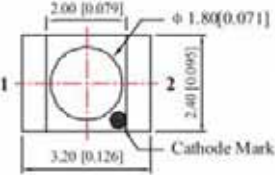
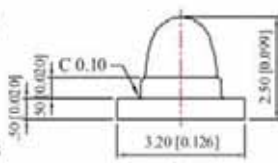
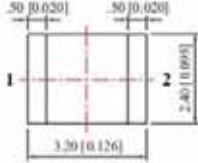

											
	S155SGC-2S-2A	GaAlAs	Super Red	660	640	Water Clear	2.00	2.40	20	8	15
	GaP	Yellow Green	575	573	2.00		2.40	6		10	
S155VUGC-2B	AlGaInP	Hyper Red	632	624		2.00	2.40		30	50	
	AlGaInP	Super Yellow Green	575	573		2.00	2.40		20	35	

(Ta=25°C)


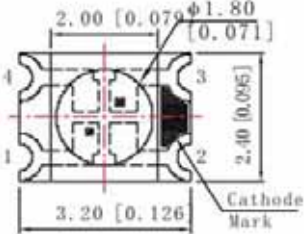
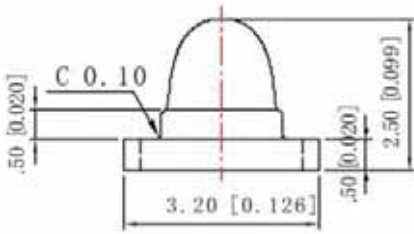
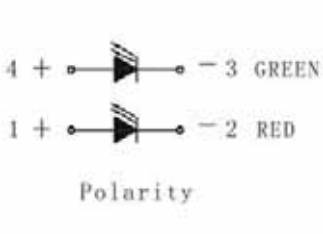

\*\*Condition for IFP is pulse of 1/10 duty and 0.1 msec width

Part Number LL-XXXX	Chip				Lens Color	Vf(V)		Iv (mcd)			Viewing Angle 2° 1/2
	Material	Emitted Color	$\lambda_p(\text{nm})$ /x	$\lambda_d(\text{nm})$ /y		Typ	Max	IF=mA	Min	Typ	

1.80mm Round Subminiature Single Color  
3.20mmX2.40mmX2.50mm SMD LED

									<b>Polarity</b>		
	SR180VC-V1-2B	AlGaInP	Hyper Red	632	624	Water Clear	2.00	2.40	20	250	500
SR180UAC-2A	AlGaInP	Super Yellow Orange	610	605	2.00		2.40	200		400	
SR180UYC-Y2-2B	AlGaInP	Super Yellow	592	589	2.00		2.40	250		500	
SR180UGC-2B	AlGaInP	Super Yellow Green	575	573	2.00		2.40	150		350	
SR180PGC-G5-1B	InGaN	Pure Green	520	525	3.40		3.80	800		1500	
SR180BC-B4-1B	InGaN	Blue	468	470	3.40		3.80	450		1000	
SR180W-W2-1C	InGaN	White	x=0.30 y=0.31		Yellow Diffused		3.40	3.80		800	1500

1.80mm Round Subminiature Single Color  
3.20mmX2.40mmX2.50mm SMD LED


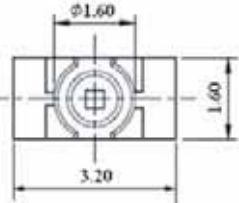
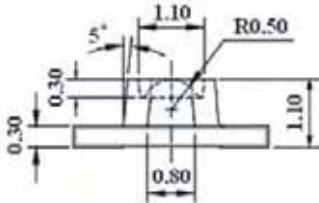
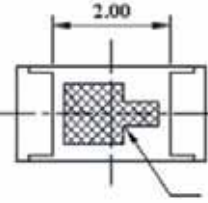
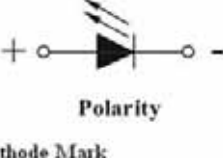
									<b>Polarity</b>		
	SR180SGC-2S-2A	GaAlAs	Super Red	660	640	Water Clear	2.00	2.40	20	50	80
	GaP	Yellow Green	575	573	2.00		2.40	25		50	
SR180VUGC-2B	AlGaInP	Hyper Red	632	624	2.00		2.40	80		150	
	AlGaInP	Super Yellow Green	575	573	2.00		2.40	40		70	

(Ta=25°C)


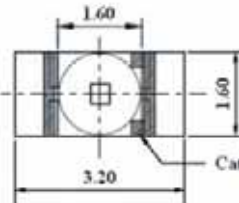

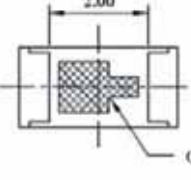

\*\*Condition for IFP is pulse of 1/10 duty and 0.1 msec width

Part Number LL-XXXX	Chip				Lens Color	Vf(V)		Iv (mcd)			Viewing Angle 2θ 1/2
	Material	Emitted Color	$\lambda_p(\text{nm})$ /x	$\lambda_d(\text{nm})$ /y		Typ	Max	IF=mA	Min	Typ	

### Reverse Package Single Color With Inner Lens 3.20mm×1.60mm×1.10mm SMD LED

											
S35EVC-V1-2B	AlGaInP	Hyper Red	632	624	Water Clear	2.00	2.40	20	50	125	60
S35EUYC-Y2-2B	AlGaInP	Super Yellow	592	589		2.00	2.40		50	120	
S35EUGC-2B	AlGaInP	Super Yellow Green	575	573		2.00	2.40		30	55	
S35EPGC-G5-1B	InGaN	Pure Green	520	525		3.40	3.80		280	500	
S35EBC-B4-1B	InGaN	Blue	468	470		3.40	3.80		55	100	
S35EW-W2-1C	InGaN	White	x=0.30	y=0.31		Yellow Diffused	3.40		3.80	800	

### 1.60mm Round Subminiature Reverse Package Single Color 3.20mm×1.60mm×1.90mm SMD LED

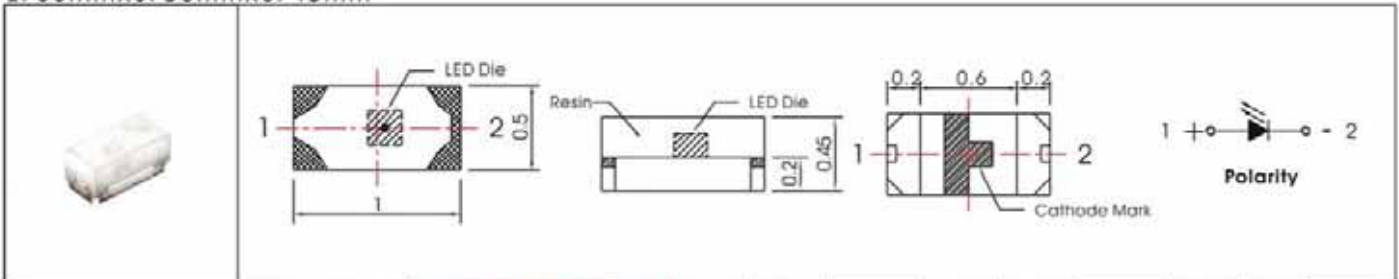
											
SR160VC-V1-2B	AlGaInP	Hyper Red	632	624	Water Clear	2.00	2.40	20	400	650	30
SR160UAC-2A	AlGaInP	Super Yellow Orange	610	605		2.00	2.40		200	400	
SR160UYC-Y2-2B	AlGaInP	Super Yellow	592	589		2.00	2.40		150	350	
SR160UGC-2B	AlGaInP	Super Yellow Green	575	573		2.00	2.40		100	300	
SR160PGC-G5-1B	InGaN	Pure Green	520	525		3.40	3.80		500	1000	
SR160BC-B4-1B	InGaN	Blue	468	470		3.40	3.80		400	800	

(Ta=25°C)

\*\*Condition for IFP is pulse of 1/10 duty and 0.1 msec width

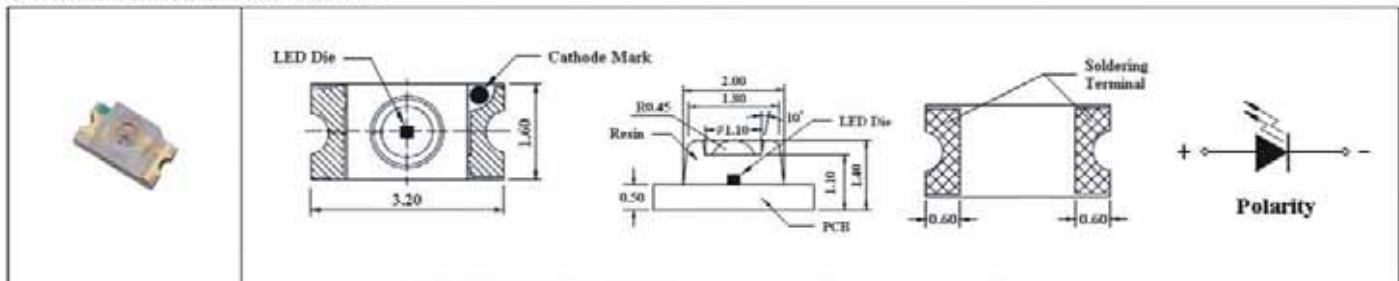
Part Number LL-XXXX	Chip				Lens Color	Vf(V)		Iv (mcd)			Viewing Angle 2 $\theta$ 1/2
	Material	Emitted Color	$\lambda_p$ (nm) /x	$\lambda_d$ (nm) /y		Typ	Max	IF=mA	Min	Typ	

**Single Color SMD LED**  
1.00mmx0.50mmx0.45mm



S160VC-V1-2B	AlGaInP	Hyper Red	632	624	Water Clear	2.00	2.40	20	15	35	120
S160UAC-2A	AlGaInP	Super Yellow Orange	610	605		2.00	2.40		25	40	
S160UYC-Y2-2B	AlGaInP	Super Yellow	592	589		2.00	2.40		15	40	
S160UGC-2B	AlGaInP	Super Yellow Green	575	573		2.00	2.40		10	15	
S160PGC-G5-1B	InGaN	Pure Green	520	525		3.40	3.80		100	180	
S160BC-B4-1B	InGaN	Blue	468	470		3.40	3.80		10	20	
S160W-W2-1C	InGaN	White	x=0.30 y=0.31			Yellow Diffused	3.40		3.80	50	

**Single Color SMD LED With Inner Lens**  
3.20mmx1.60mmx1.40mm




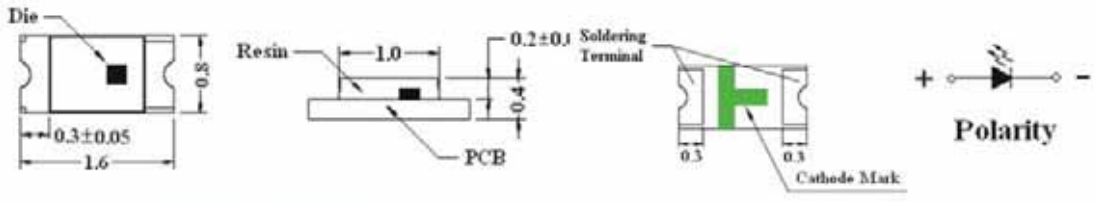
S350SC-2S	GaAlAs	Super Red	660	640	Water Clear	2.00	2.40	20	20	40	60
S350VC-V1-2B	AlGaInP	Hyper Red	632	624		2.00	2.40		50	125	
S350UAC-2A	AlGaInP	Super Yellow Orange	610	605		2.00	2.40		50	115	
S350YC-2Y	GaAsP/GaP	Yellow	592	589		2.00	2.40		10	20	
S350UYC-Y2-2B	AlGaInP	Super Yellow	592	589		2.00	2.40		50	120	
S350GC-2A	GaP	Yellow Green	575	573		2.00	2.40		15	25	
S350UGC-2B	AlGaInP	Super Yellow Green	575	573		2.00	2.40		30	55	
S350PGC-G5-1B	InGaN	Pure Green	520	525		3.40	3.80		280	500	
S350BC-B4-1B	InGaN	Blue	468	470		3.40	3.80		55	100	
S350W-W2-1C	InGaN	White	x=0.30 y=0.31		Yellow Diffused	3.40	3.80	800	1500		

(Ta=25°C)


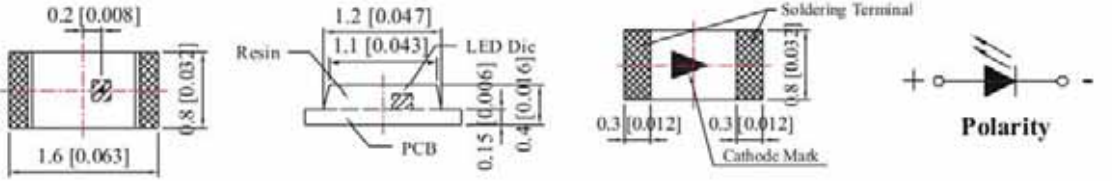
\*\*Condition for IFP is pulse of 1/10 duty and 0.1 msec width

Part Number LL-XXXX	Chip				Lens Color	Vf(V)		Iv (mcd)			Viewing Angle 2 θ 1/2
	Material	Emitted Color	$\lambda_p$ (nm) /x	$\lambda_d$ (nm) /y		Typ	Max	IF=mA	Min	Typ	

**Single Color SMD LED**  
1.60mmx0.80mmx0.40mm

												
	S194PGC-G5-1B	InGaN	Pure Green	520	525	Water Clear	3.40	3.80	20	80	200	130
	S194BC-B4-1B	InGaN	Blue	468	470		3.40	3.80		20	40	
	S194W-W2-1C	InGaN	White	x=0.30 y=0.31		Yellow Diffused	3.40	3.80		200	250	

**Single Color SMD LED**  
1.60mmx0.80mmx0.40mm

												
	S194PPGC-G5-1B	InGaN	Pure Green	520	525	Water Clear	3.40	3.80	20	80	200	130
	S194PBC-B4-1B	InGaN	Blue	468	470		3.40	3.80		20	40	

Part Number LL-XXXX	Chip				Lens Color	Vf(V)		Iv (mcd)			Viewing Angle 2θ 1/2
	Material	Emitted Color	$\lambda_p$ (nm) /x	$\lambda_d$ (nm) /y		Typ	Max	IF=mA	Min	Typ	

Single Color SMD LED  
1.60mmx0.80mmx0.60mm

	S192VC-V1-2B	AlGaInP	Hyper Red	632	624	Water Clear	2.00	2.40	20	20	40
S192UAC-2A	AlGaInP	Super Yellow Orange	610	605	2.00		2.40	15		25	
S192UYC-Y2-2B	AlGaInP	Super Yellow	592	589	2.00		2.40	20		40	
S192UGC-2B	AlGaInP	Super Yellow Green	575	573	2.00		2.40	10		25	
S192PGC-G5-1B	InGaN	Pure Green	520	525	3.40		3.80	60		180	
S192BC-B4-1B	InGaN	Blue	468	470	3.40		3.80	15		35	
S192W-W2-1C	InGaN	White	x=0.30y=0.31		Yellow Diffused		3.40	3.80		60	180

Single Color SMD LED  
1.60mmx0.80mmx0.60mm

	S192PVC-V1-2B	AlGaInP	Hyper Red	632	624	Water Clear	2.00	2.40	20	20	40
S192PUAC-2A	AlGaInP	Super Yellow Orange	610	605	2.00		2.40	15		25	
S192PUYC-Y2-2B	AlGaInP	Super Yellow	592	589	2.00		2.40	20		40	
S192PUGC-2B	AlGaInP	Super Yellow Green	575	573	2.00		2.40	10		25	
S192PPGC-G5-1B	InGaN	Pure Green	520	525	3.40		3.80	60		180	
S192PBC-B4-1B	INGaN	Blue	468	470	3.40		3.80	15		35	
S192PW-W2-1C	INGaN	White	x=0.30y=0.31		Yellow Diffused		3.40	3.80		250	350
S192PW-W6-1E	INGaN	Warm White	x=0.43y=0.40		Yellow Diffused	3.40	3.80	300	400		

(Ta=25°C)

\*\*Condition for IFP is pulse of 1/10 duty and 0.1 msec width



# LUCKY LIGHT SMD FOR PCB TYPE

Part Number LL-XXXX	Chip				Lens Color	Vf(V)		Iv(mcd)			Viewing Angle 2 <sup>θ</sup> 1/2
	Material	Emitted Color	$\lambda_p(\text{nm})$ /x	$\lambda_d(\text{nm})$ /y		Typ	Max	IF=mA	Min	Typ	

Single Color SMD LED  
2.00x1.25mmx0.80mm

Part Number	Material	Emitted Color	$\lambda_p(\text{nm})$ /x	$\lambda_d(\text{nm})$ /y	Lens Color	Vf(V)		Iv(mcd)			Viewing Angle 2 <sup>θ</sup> 1/2
						Typ	Max	IF=mA	Min	Typ	
S172SC-2S	GaAlAs	Super Red	660	640	Water Clear	2.00	2.40	20	6	12	130
S172VC-V1-2B	AlGaInP	Hyper Red	632	624		2.00	2.40		25	45	
S172AC-A1	GaAsP	Yellow Orange	610	605		2.00	2.40		3	8	
S172UAC-2A	AlGaInP	Super Yellow Orange	610	605		2.00	2.40		20	30	
S172YC-2Y	GaAsP/GaP	Yellow	592	589		2.00	2.40		5	8	
S172UYC-Y2-2B	AlGaInP	Super Yellow	592	589		2.00	2.40		25	45	
S172GC-2A	GaP	Yellow Green	575	573		2.00	2.40		5	8	
S172UGC-2B	AlGaInP	Super Yellow Green	575	573		2.00	2.40		15	30	
S172PGC-G5-1B	InGaN	Pure Green	520	525		3.40	3.80		80	200	
S172BC-B4-1B	InGaN	Blue	468	470		3.40	3.80		20	40	
S172W-W2-1C	InGaN	White	x=0.30	y=0.31	Yellow Diffused	3.40	3.80	200	300		

Single Color SMD LED  
1.60mmx0.80mmx0.80mm


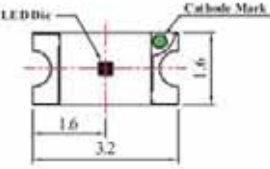
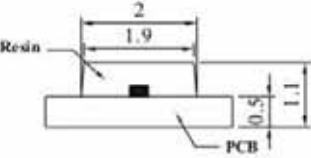
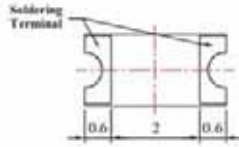
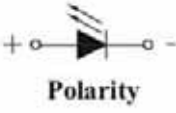
Part Number	Material	Emitted Color	$\lambda_p(\text{nm})$ /x	$\lambda_d(\text{nm})$ /y	Lens Color	Vf(V)		Iv(mcd)			Viewing Angle 2 <sup>θ</sup> 1/2
						Typ	Max	IF=mA	Min	Typ	
S190PSC-2S	GaAlAs	Super Red	660	640	Water Clear	2.00	2.40	20	6	12	130
S190PVC-V1-2B	AlGaInP	Hyper Red	632	624		2.00	2.40		25	45	
S190PAC-A1	GaAsP	Yellow Orange	610	605		2.00	2.40		3	8	
S190PUAC-2A	AlGaInP	Super Yellow Orange	610	605		2.00	2.40		20	30	
S190PYC-2Y	GaAsP/GaP	Yellow	592	589		2.00	2.40		5	8	
S190PUYC-Y2-2B	AlGaInP	Super Yellow	592	589		2.00	2.40		25	45	
S190PGC-2A	GaP	Yellow Green	575	573		2.00	2.40		5	8	
S190PUGC-2B	AlGaInP	Super Yellow Green	575	573		2.00	2.40		15	30	
S190PPGC-G5-1B	InGaN	Pure Green	520	525		3.40	3.80		80	200	
S190PBC-B4-1B	InGaN	Blue	468	470		3.40	3.80		20	40	
S190PW-W2-1D	InGaN	White	x=0.30	y=0.31	Yellow Diffused	3.40	3.80	250	350		

(Ta=25°C)

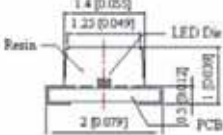
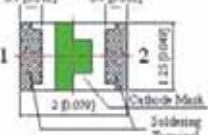

\*\*Condition for IFP is pulse of 1/10 duty and 0.1 msec width

Part Number LL-XXXX	Chip				Lens Color	Vf(V)		Iv (mcd)			Viewing Angle
	Material	Emitted Color	$\lambda_p(\text{nm})$ /x	$\lambda_d(\text{nm})$ /y		Typ	Max	IF=mA	Min	Typ	

**Single Color SMD LED**  
3.20mmx1.60mmx1.10mm

												
S150SC-2S	GaAlAs	Super Red	660	640	Water Clear	2.00	2.40	20	8	15	120	
S150VC-V1-2B	AlGaInP	Hyper Red	632	624		2.00	2.40		30	50		
S150YC-2Y	GaAsP/GaP	Yellow	592	589		2.00	2.40		6	10		
S150UYC-Y2-2B	AlGaInP	Super Yellow	592	589		2.00	2.40		30	50		
S150GC-2A	GaP	Yellow Green	575	573		2.00	2.40		6	10		
S150UGC-2B	AlGaInP	Super Yellow Green	575	573		2.00	2.40		20	35		
S150PGC-G5-1B	InGaN	Pure Green	520	525		3.40	3.80		100	250		
S150BC-B4-1B	InGaN	Blue	468	470		3.40	3.80		25	45		
S150W-W2-1C	InGaN	White	x=0.30	y=0.31		Yellow Diffused	3.40		3.80	250		350

**Single Color SMD LED**  
2.00mmx1.25mmx1.10mm


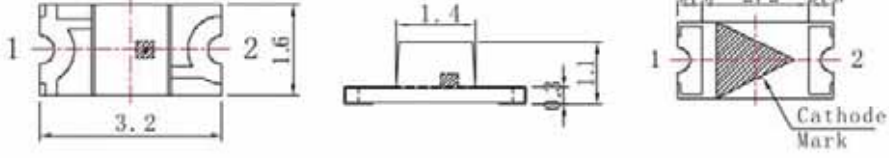
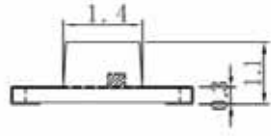
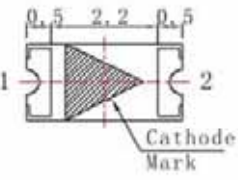

											
S170PSC-2S	GaAlAs	Super Red	660	640	Water Clear	2.00	2.40	20	8	15	120
S170PVC-V1-2B	AlGaInP	Hyper Red	632	624		2.00	2.40		30	50	
S170PAC-A1	GaAsP	Yellow Orange	610	605		2.00	2.40		5	10	
S170PUAC-2A	AlGaInP	Super Yellow Orange	610	605		2.00	2.40		25	40	
S170PYC-2Y	GaAsP/GaP	Yellow	592	589		2.00	2.40		6	10	
S170PUYC-Y2-2B	AlGaInP	Super Yellow	592	589		2.00	2.40		30	50	
S170PGC-2A	GaP	Yellow Green	575	573		2.00	2.40		6	10	
S170PUGC-2B	AlGaInP	Super Yellow Green	575	573		2.00	2.40		20	35	
S170PPGC-G5-1B	InGaN	Pure Green	520	525		3.40	3.80		100	250	
S170PBC-B4-1B	InGaN	Blue	468	470		3.40	3.80		25	45	
S170PW-W2-1C	InGaN	White	X=0.30	Y=0.31	Yellow Diffused	3.40	3.80	250	450		

(Ta=25°C)


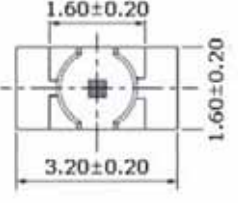
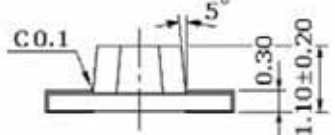
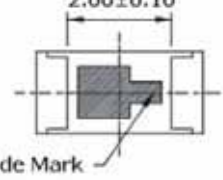

\*\*Condition for IFP is pulse of 1/10 duty and 0.1 msec width

Part Number LL-XXXX	Chip				Lens Color	Vf(V)		Iv (mcd)			Viewing Angle 2θ 1/2
	Material	Emitted Color	$\lambda_p(\text{nm})$ /x	$\lambda_d(\text{nm})$ /y		Typ	Max	IF=mA	Min	Typ	


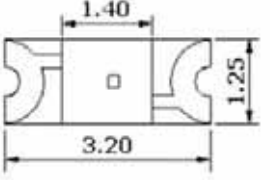
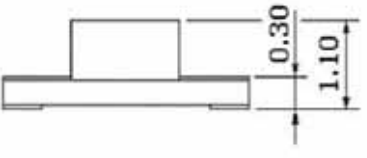
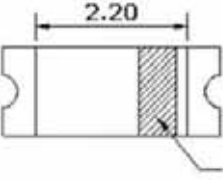

### Reverse Package Single Color 3. 20mmx1. 60mmx1. 10mm SMD LED

											
S15AVC-V1-2B	AlGaInP	Hyper Red	632	624	Water Clear	2.00	2.40	20	25	45	130
S15AUYC-Y2-2B	AlGaInP	Super Yellow	592	589		2.00	2.40		25	45	
S15AUGC-2B	AlGaInP	Super Yellow Green	575	573		2.00	2.40		15	30	
S15APGC-G5-1B	InGaN	Pure Green	520	525		3.40	3.80		80	200	
S15ABC-B4-1B	InGaN	Blue	468	470		3.40	3.80		20	40	

### Reverse Package Single Color 3. 20mmx1. 60mmx1. 10mm SMD LED

											
S15BVC-V1-2B	AlGaInP	Hyper Red	632	624	Water Clear	2.00	2.40	20	25	45	130
S15BUYC-Y2-2B	AlGaInP	Super Yellow	592	589		2.00	2.40		25	45	
S15BUGC-2B	AlGaInP	Super Yellow Green	575	573		2.00	2.40		15	30	
S15BPGC-G5-1B	InGaN	Pure Green	520	525		3.40	3.80		80	200	
S15BBC-B4-1B	InGaN	Blue	468	470		3.40	3.80		20	40	

### Reverse Package Single Color 3. 20mmx1. 25mmx1. 10mm SMD LED

											
S15CVC-V1-2B	AlGaInP	Hyper Red	632	624	Water Clear	2.00	2.40	20	25	45	130
S15CUYC-Y2-2B	AlGaInP	Super Yellow	592	589		2.00	2.40		25	45	
S15CUGC-2B	AlGaInP	Super Yellow Green	575	573		2.00	2.40		15	30	
S15CPGC-G5-1B	InGaN	Pure Green	520	525		3.40	3.80		80	200	
S15CBC-B4-1B	InGaN	Blue	468	470		3.40	3.80		20	40	

(Ta=25°C)

\*\*Condition for IFP is pulse of 1/10 duty and 0.1 msec width

Part Number LL-XXXX	Chip				Lens Color	Vf(V)		Iv (mcd)			Viewing Angle 2θ 1/2
	Material	Emitted Color	$\lambda_p(\text{nm})$ /x	$\lambda_d(\text{nm})$ /y		Typ	Max	IF=mA	Min	Typ	

Single Color SMD LED With Right Lens  
3.00mmx1.00mmx2.00mm

	S11PVC-V1-2B	AlGaInP	Hyper Red	632	624	Water Clear	2.00	2.40	20	30	50
S11PUYC-Y2-2B	AlGaInP	Super Yellow	592	589	2.00		2.40	30		50	
S11PUGC-2B	AlGaInP	Super Yellow Green	575	573	2.00		2.40	20		35	
S11PPGC-G5-1B	InGaN	Pure Green	520	525	3.40		3.80	100		250	
S11PBC-B4-1B	InGaN	Blue	468	470	3.40		3.80	25		45	

Single Color SMD LED With Right Lens  
2.10mmx0.60mmx1.00mm


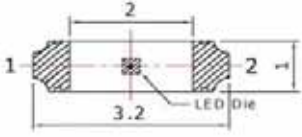
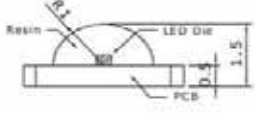
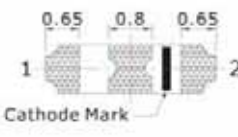

	S11FVC-V1-2B	AlGaInP	Hyper Red	632	624	Water Clear	2.00	2.40	20	25	45
S11FUYC-Y2-2B	AlGaInP	Super Yellow	592	589	2.00		2.40	25		45	
S11FUGC-2B	AlGaInP	Super Yellow Green	575	573	2.00		2.40	15		30	
S11FPGC-G5-1B	InGaN	Pure Green	520	525	3.40		3.80	80		200	
S11FBC-B4-1B	InGaN	Blue	468	470	3.40		3.80	20		40	
S11FW-W2-1D	InGaN	White	x=0.30	y=0.31	Yellow Diffused		3.40	3.80		90	125

(Ta=25°C)


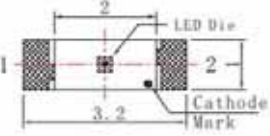
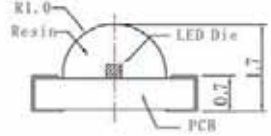
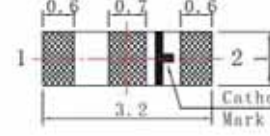

\*\*Condition for IFP is pulse of 1/10 duty and 0.1 msec width

Part Number LL-XXXX	Chip				Lens Color	Vf(V)		Iv (mcd)			Viewing Angle 2θ 1/2
	Material	Emitted Color	$\lambda_p(\text{nm})$ /x	$\lambda_d(\text{nm})$ /y		Typ	Max	IF=mA	Min	Typ	

**Single Color SMD LED With Right Lens**  
3.20mmx1.00mmx1.50mm

												
	S110SC-2S	GaAlAs	Super Red	660	640	Water Clear	2.00	2.40	20	8	15	120
	S110VC-V1-2B	AlGaInP	Hyper Red	632	624		2.00	2.40		30	50	
	S110YC-2Y	GaAsP/GaP	Yellow	592	589		2.00	2.40		6	10	
	S110UYC-Y2-2B	AlGaInP	Super Yellow	592	589		2.00	2.40		30	50	
	S110GC-2A	GaP	Yellow Green	575	573		2.00	2.40		6	10	
	S110UGC-2B	AlGaInP	Super Yellow Green	575	573		2.00	2.40		20	35	
	S110PGC-G5-1B	InGaN	Pure Green	520	525		3.40	3.80		100	250	
	S110BC-B4-1B	InGaN	Blue	468	470		3.40	3.80		25	45	

**Single Color SMD LED With Right Lens**  
3.00mmx1.00mmx1.70mm

												
	S11BVC-V1-2B	AlGaInP	Hyper Red	632	624	Water Clear	2.00	2.40	20	30	50	120
	S11BUYC-Y2-2B	AlGaInP	Super Yellow	592	589		2.00	2.40		30	50	
	S11BUGC-2B	AlGaInP	Super Yellow Green	575	573		2.00	2.40		20	35	
	S11BPGC-G5-1B	InGaN	Pure Green	520	525		3.40	3.80		100	250	
	S11BBC-B4-1B	InGaN	Blue	468	470		3.40	3.80		25	45	

(Ta=25°C)

\*\*Condition for IFP is pulse of 1/10 duty and 0.1 msec width

**SMD SURFACE MOUNT CHIP LED**

## Selection Guide-D

Series	Size(L*W*H)	Description
	Unit:mm	
S355	4.00*0.80*1.40	MONO COLOR
V020	3.80*1.20*1.20	MONO COLOR
R2014	2.00*1.40*1.35	MONO COLOR
R3021	3.00*2.10*1.50	MONO COLOR
R3021/TR2	3.00*2.20*1.50	MONO COLOR
R3528	3.50*2.80*1.90	MONO COLOR
R3528E/TR10	3.50*2.80*3.25	MONO COLOR
R3528F	3.50*2.80*1.90	MONO COLOR
R3528RGB	3.50*2.80*1.90	FULL COLOR
R6050	5.50*5.00*1.80	MONO/FULL COLOR
R6050/TR8	6.00*5.00*2.50	MONO COLOR
R6050RGB	5.50*5.00*1.80	FULL COLOR
AR180	2.15*2.40*2.75	MONO COLOR
AR180/TR2	2.15*2.40*2.75	MONO COLOR
AR180/TR5	2.15*2.40*2.75	MONO COLOR