

CHIP TYPE SURFACE MOUNT LED

▼1101W · 1102W · 1201W · 1204W CHARACTERISTICS BY COLOR

Ta=25°C

Part No.	Material (Emitted Color)	Absolute Maximum Ratings							Electro-Optical Characteristics								
		Power	Forward Current	Peak Forward Current	Reverse	Operating	Storage	※1 Derating	Forward Voltage			Reverse Current		Wavelength Spectral Line			
		※ Pd	※ If	※ Ifm	Vr	Topr	Tstg	ΔIf	VF			IR		Peak λp TYP.	Δλ TYP.	If	
									TYP.	MAX.	If	MAX.	Vr				
BR	GaAlAs (Red)	60	30	70	4	-30~+85	-40~+100	0.42	1.7	2.0	20	100	4	660	30	20	
AA	GaAsP / GaP (Orange)	75	30	70	4	-30~+85	-40~+100	0.42	2.2	2.5	20	100	4	605	30	20	
AY	GaAsP / GaP (Yellow)	75	30	70	4	-30~+85	-40~+100	0.42	2.2	2.5	20	100	4	580	30	20	
PY	GaP (Yellow)	75	30	70	4	-30~+85	-40~+100	0.42	2.1	2.5	20	100	4	570	30	20	
PG	GaP (Green)	75	30	70	4	-30~+85	-40~+100	0.42	2.1	2.5	20	100	4	560	30	20	
BG	GaP (Pure Green)	75	30	70	4	-30~+85	-40~+100	0.42	2.1	2.5	20	100	4	555	30	20	
Units		mW	mA	mA	V	℃	℃	mA/℃	V			mA	μA	V	nm		mA

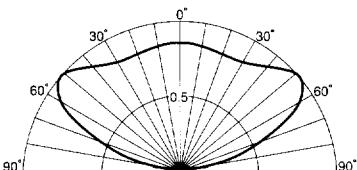
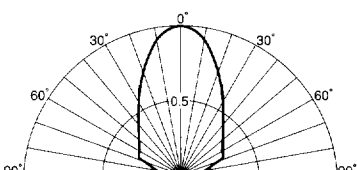
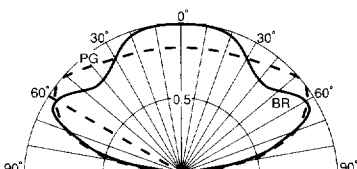
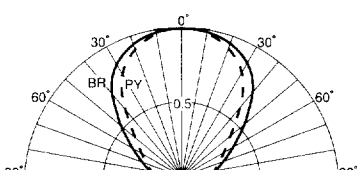
● Ifm condition : tw ≤ 1msec Duty1 ≤ 1/20

※ Absolute maximum ratings required by the LED with 2 chips indise and driven simultaneously are : Pd=75mW、If=30mA、Ifm=70mA

※1 The current derating for operation applies when the temperature is above 25°C

▼STANDARD CHIP TYPE LED

Ta=25°C

Lens Type	Shape	Part No.	Emitted Color	Lens	Peak Wave Length (nm)	Luminous Intensity (mcd)			Spatial Distribution (The typical distribution example of each shape is shown below.)	fig.
						MIN.	TYP.	If(mA)		
Flat lens type		BR1101W	Red	Water Clear	660	1.6	12.8	20		11
		AA1101W	Orange		605	1	5.6	20		
		AY1101W	Yellow		580	2	4	20		
		PY1101W	Yellow		570	1.4	8	20		
		PG1101W	Green		560	1.2	4.8	20		
		BG1101W	Pure Green		555	0.7	2	20		
Inner-lens type		BR1102W	Red	Water Clear	660	6	33.6	20		12
		AA1102W	Orange		605	5	10	20		
		AY1102W	Yellow		580	3	8.4	20		
		PY1102W	Yellow		570	6	24	20		
		PG1102W	Green		560	3	12	20		
		BG1102W	Pure Green		555	0.9	4.8	20		
Flat lens type		BRPY1201W	Red	Water Clear	660	1.6	12.8	20		13
			Yellow		570	1.4	8	20		
		BRPG1201W	Red		660	1.6	12.8	20		
			Green		560	1.2	4.8	20		
		BRBG1201W	Red		660	1.6	12.8	20		
			Pure Green		555	0.7	2	20		
2 lens		BRPY1204W	Red	Water Clear	660	6	33.6	20		14
			Yellow		570	6	24	20		
		BRPG1204W	Red		660	6	33.6	20		
			Green		560	3	12	20		
		BRBG1204W	Red		660	6	33.6	20		
			Pure Green		555	0.9	4.8	20		



▼PACKAGE DIMENSIONS UNIT : mm

Tolerance : $\pm 0.2\text{mm}$

fig. 11

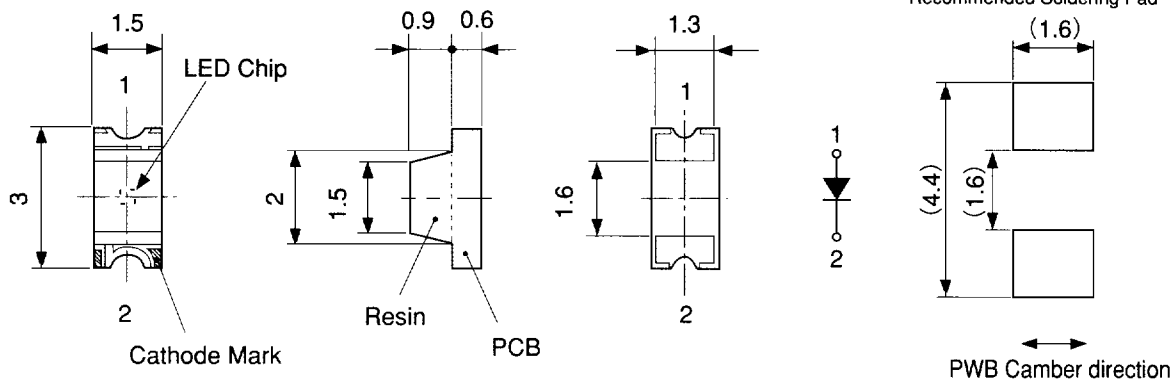


fig. 12

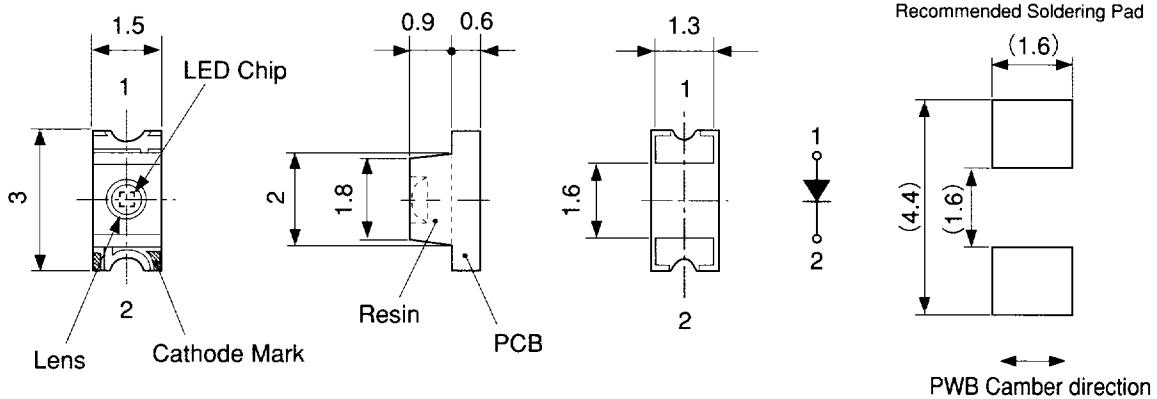


fig. 13

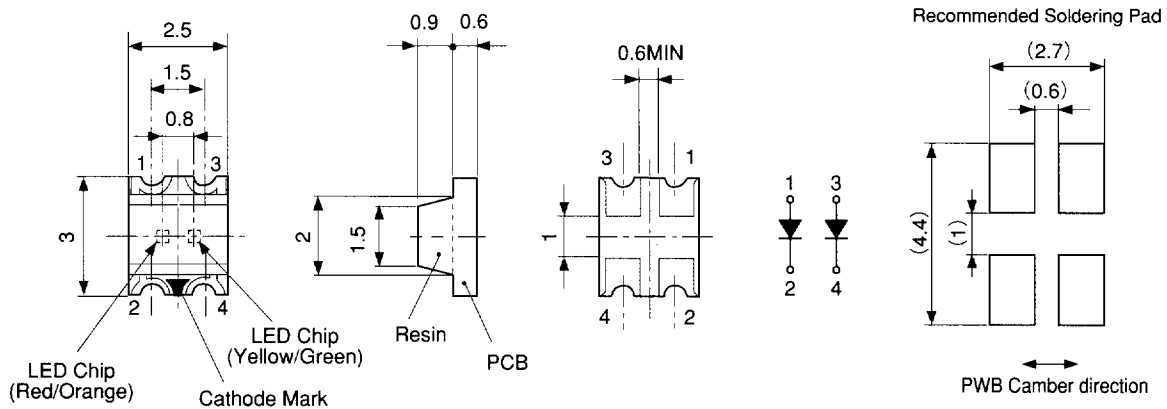


fig. 14

