

SURFACE MOUNT LED

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

Ta=25°C

Type No.	Material Emitted Color	Absolute Maximum Ratings							Electro-Optical Characteristics							
		Power Dissipation * Pd	Forward Current * If	Peak Forward Current * Ifm	Reverse Voltage Vr	Operating Temperature Topr	Storage Temperature Tstg	% I Derating z/r	Forward Voltage Vf			Reverse Current Ir		Wavelength Central Wavelength λc		
									TYP.	MAX.	If	MAX.	Ifr	TYP.	IF	
BR	GaAlAs (Red)	60	30	70	4	-30~+85	-30~+90	0.42	1.7	2.0	20	100	4	660	30	20
AA	GaAsP / GaP (Orange)	75	30	70	4	-30~+85	-30~+90	0.42	2.2	2.5	20	100	4	605	30	20
AY	GaAsP / GaP (Yellow)	75	30	70	4	-30~+85	-30~+90	0.42	2.2	2.5	20	100	4	580	30	20
PY	GaP (Yellow)	75	30	70	4	-30~+85	-30~+90	0.42	2.1	2.5	20	100	4	570	30	20
PG	GaP (Green)	75	30	70	4	-30~+85	-30~+90	0.42	2.1	2.5	20	100	4	560	30	20
BG	GaP (Pure Green)	75	30	70	4	-30~+85	-30~+90	0.42	2.1	2.5	20	100	4	555	30	20


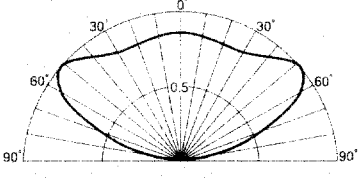

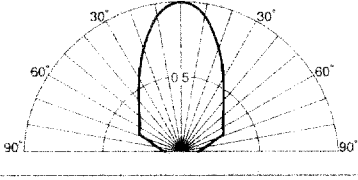

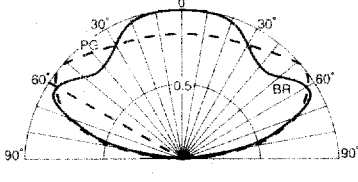

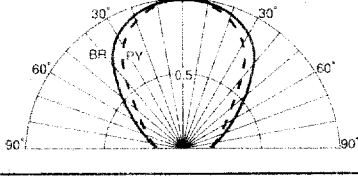
● IFM condition : $t_w \leq 1\text{msec}$ and duty cycle $\leq 1/20$

* Absolute maximum ratings required by the LED with 2 chips inside and driven simultaneously are : Pd=75mW, IFM=70mA

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

▼CHARACTERISTICS BY SHAPE

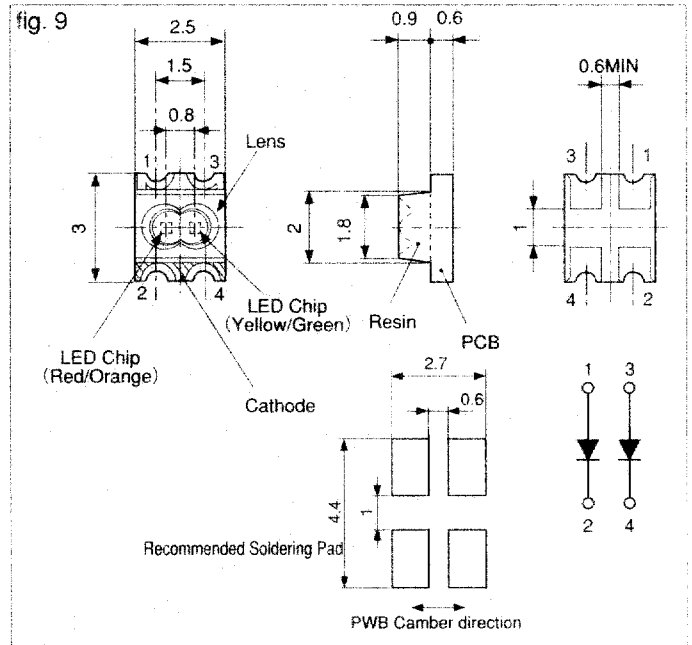
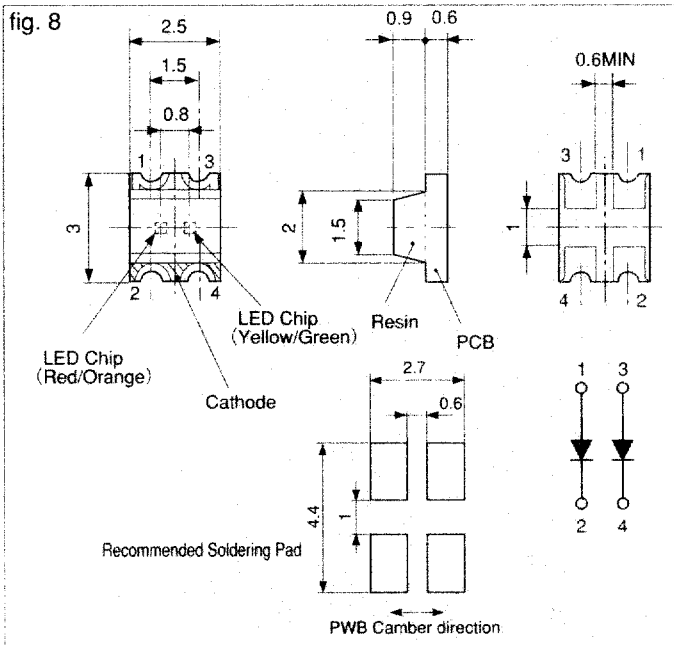
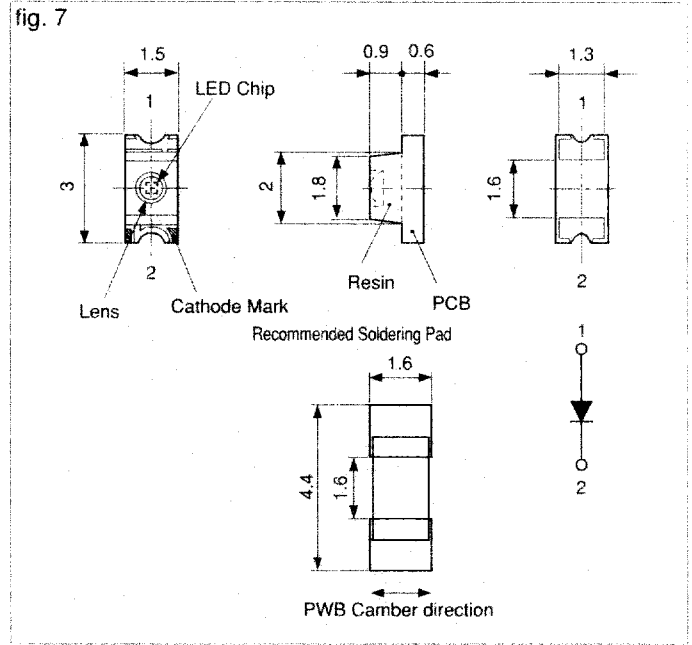
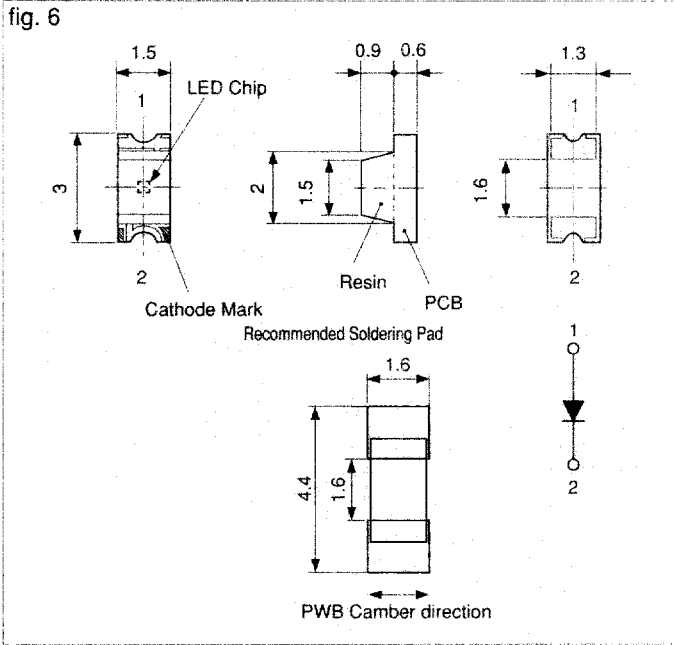
Ta=25°C

Lens Type	Shape	Type No.	Emitted Color	Lens	Peak Wave Length (nm)	Luminous Intensity (mcd)			Spatial Distribution (The typical distribution diagrams of each shape is shown below)	I _g
						MIN	TYP.	IF(MA)		
Flat lens type		BR1101W	Red	Water Clear	660	1.6	4.5	20		6
		AA1101W	Orange		605	1	3.6	20		
		AY1101W	Yellow		580	2	3.2	20		
		PY1101W	Yellow		570	1.4	4	20		
		PG1101W	Green		560	1.2	3	20		
		BG1101W	Pure Green		555	0.7	1.4	20		
Inner-lens type		BR1102W	Red	Water Clear	660	6	17	20		7
		AA1102W	Orange		605	5	9	20		
		AY1102W	Yellow		580	3	6	20		
		PY1102W	Yellow		570	6	12	20		
		PG1102W	Green		560	3	7.5	20		
		BG1102W	Pure Green		555	0.9	2.3	20		
Flat lens type		BRPY1201W	Red	Water Clear	660	1.6	4.5	20		8
		BRPG1201W	Green		560	1.2	3	20		
		BRBG1201W	Pure Green		555	0.7	1.4	20		
		AAPY1201W	Yellow		570	1.4	4	20		
		BRPY1204W	Red		660	6	17	20		
		BRPY1204W	Yellow		570	6	12	20		
2 lens		BRPG1204W	Green	Water Clear	560	3	7.5	20		9
		BRBG1204W	Pure Green		555	0.9	2.3	20		
		BRBG1204W	Red		660	6	17	20		
		AAPY1204W	Orange		605	5	9	20		
		AAPY1204W	Yellow		570	6	12	20		

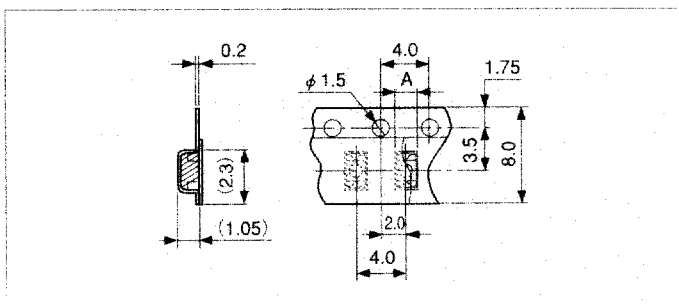


▼PACKAGE DIMENSIONS Unit : mm

Tolerance : ±0.2mm



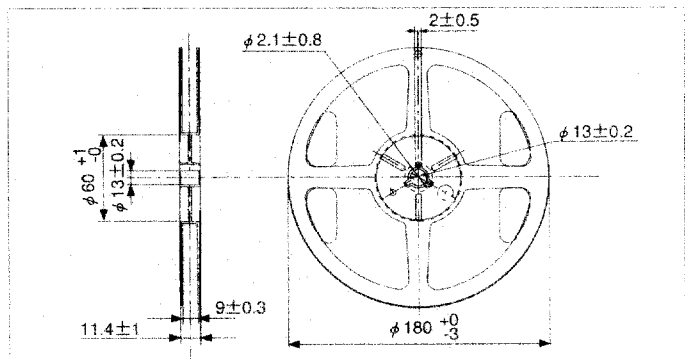
▼Taping specification Unit : mm



A Dimension
(Tolerance : ±0.1)

1 Chip	(1.8)
4 Chips	(2.8)

▼Reel specification Unit : mm



Quantity :Pcs Reel

2,500
2,500

2

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