

CHIP TYPE SURFACE MOUNT LED

Chip type LEDs were developed for low cost low profile, high density design applications. A wide variety of package styles and colors are available to suit virtually any requirement.

▼DESCRIPTION ON TYPE NO. BR 1 1 0 1 W - TR

Chip element	Shape	Number	Package	PCB material	TR	Taping
BR	Chip	of chips	Color	W Glass		Standard
PR	Chip	1 Chip	Color	Single color		
VR	Chip	2 Chips	Color	Bi color		
AA	Chip			1 Flat lens		
AY	Chip			2 Inner lens		
PY	Chip			1 Bi color		
PG	Chip			1 Flat lens		
BG	Chip			2 Dome lens		

▼CHARACTERISTICS BY COLOR

Ta=25°C

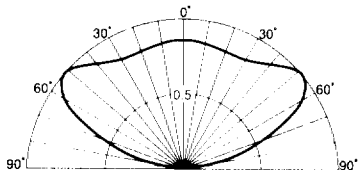
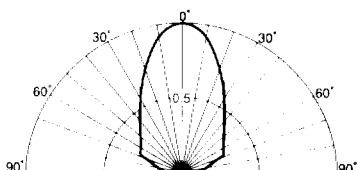
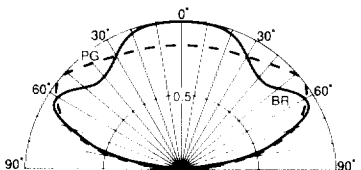
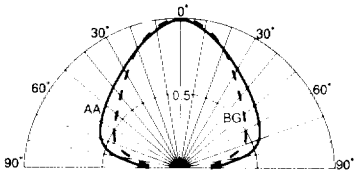
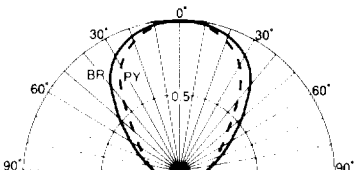
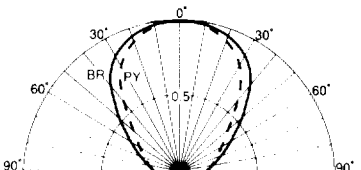
Type No.	Material Emitted Color	Absolute Maximum Ratings							Electro-Optical Characteristics							
		Power Dissipation	Forward Current	Peak Forward Current	Reverse Voltage	Operating Temperature	Storage Temperature	※1 Derating	Forward Voltage			Reverse Current		Wavelength		
									V _F			I _R		Peak λ _p TYP.	Spectral Line Half Width Δλ TYP.	I _F
									TYP.	MAX.	I _F	MAX.	V _R			
BR	GaAlAs (Red)	60	30	70	4	-30~+85	-30~+90	0.42	1.7	2.0	20	100	4	660	30	20
PR	GaP (Red)	75	30	70	4	-30~+85	-30~+90	0.42	2.1	2.5	10	100	4	700	100	10
VR	GaAsP / GaP (Red)	75	30	70	4	-30~+85	-30~+90	0.42	2.0	2.5	20	100	4	630	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
Units		mW	mA	mA	V	℃	℃	mA/℃	V	V	mA	μA	V	nm	nm	mA

● IfM condition: $t_w \leq 1$ msec. and duty cycle $\leq 1/20$

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

▼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 example of each shape is shown below.)	fig.
						MIN.	TYP.	If(mA)		
Flat lens type		BR1101W	Red	Water Clear	660	1.6	4.5	20		1
		PR1101W			700	0.4	0.7	10		
		VR1101W			630	0.9	2.5	20		
		AA1101W	Orange		605	1	3.6	20		
		AY1101W	Yellow		580	2	3.2	20		
		PY1101W			570	1.4	4	20		
		PG1101W	Green		560	1.2	3	20		
Inner-lens type		BG1101W	Pure Green	Water Clear	555	0.7	1.4	20		2
		BR1102W	Red		660	6	17	20		
		PR1102W			700	0.8	1.5	10		
		VR1102W			630	3.5	6	20		
		AA1102W	Orange		605	5	9	20		
		AY1102W	Yellow		580	3	6	20		
		PY1102W			570	6	12	20		
Flat lens type		PG1102W	Green	Water Clear	560	3	7.5	20		3
		BG1102W	Pure Green		555	0.9	2.3	20		
		BRPY1201W	Red		660	1.6	4.5	20		
		BRPG1201W	Yellow		570	1.4	4	20		
		BRPG1201W	Red		660	1.6	4.5	20		
		BRBG1201W	Green		560	1.2	3	20		
		BRBG1201W	Pure Green		555	0.7	1.4	20		
Dome lens type		AAPY1201W	Orange	Water Clear	605	1	3.6	20		4
		BRPY1202W	Yellow		570	1.4	4	20		
		BRPY1202W	Red		660	3.2	9	20		
		BRPY1202W	Yellow		570	2.8	8	20		
		BRPG1202W	Red		660	3.2	9	20		
		BRPG1202W	Green		560	2.4	6	20		
		BRBG1202W	Red		660	3.2	9	20		
2 lens		BRBG1202W	Pure Green	Water Clear	555	0.8	1.8	20		5
		AAPY1202W	Orange		605	4	7.2	20		
		AAPY1202W	Yellow		570	2.8	8	20		
		BRPY1204W	Red		660	6	17	20		
		BRPY1204W	Yellow		570	6	12	20		
		BRPG1204W	Red		660	6	17	20		
		BRPG1204W	Green		560	3	7.5	20		
		BRBG1204W	Red	Water Clear	660	6	17	20		5
		BRBG1204W	Pure Green		555	0.9	2.3	20		
		AAPY1204W	Orange		605	5	9	20		
		AAPY1204W	Yellow		570	6	12	20		



▼PACKAGE DIMENSIONS Unit : mm

fig. 1

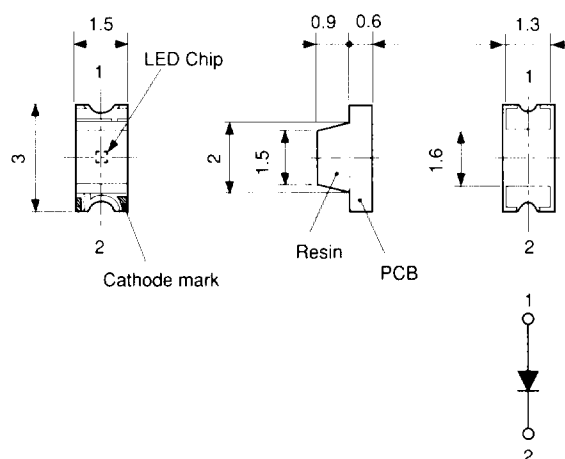


fig. 2

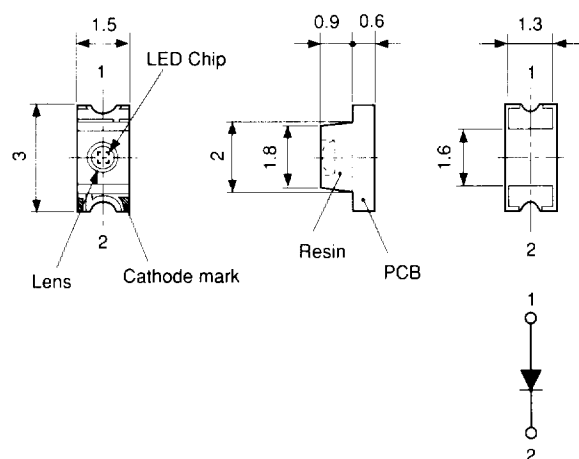


fig. 3

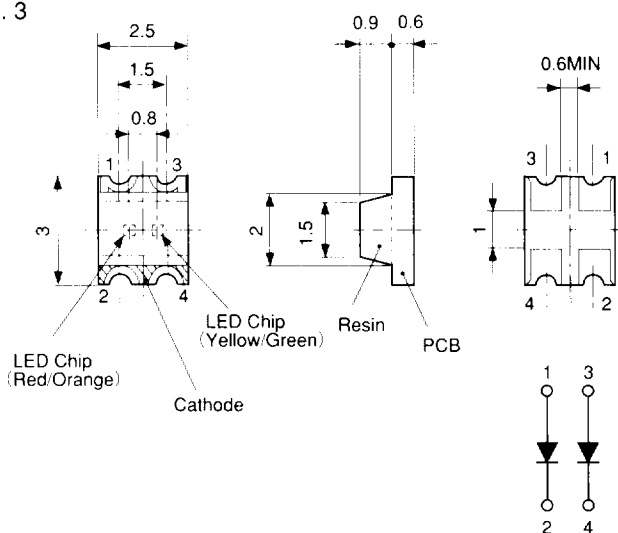


fig. 4

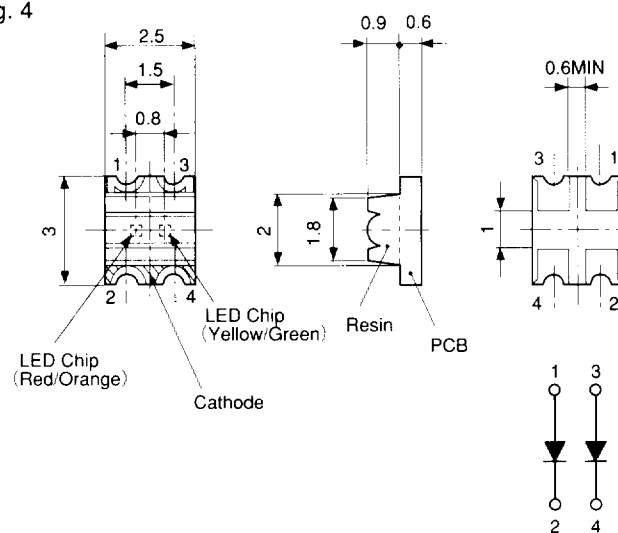
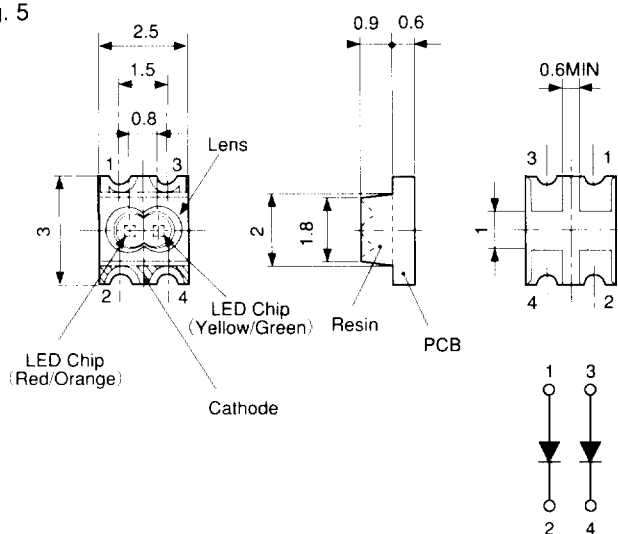
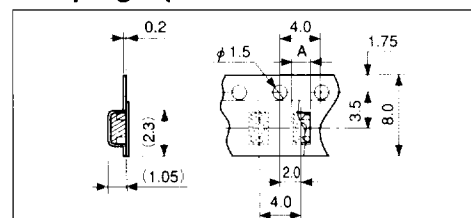


fig. 5



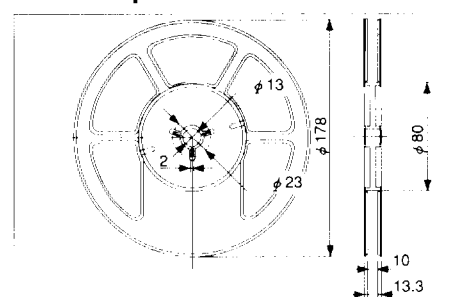
▼Taping specification Unit : mm



A Dimension
(Tolerance : ± 0.1)

1CHIP	1.8
2CHIPS	2.8

▼Reel specification Unit : mm



Quantity (Pcs./Reel)

1CHIP	2,500
2CHIPS	2,500

2