■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: BR, PR, VR, AA, AY, PY, PG, BG
- Shape Chip Type
- Number of chips: 1: 1 Chip, 2: 2 Chips
- Package Color: 0: Colorless clear
- Shape: • Single color 1: Flat lens 2: Inner lens • Bi-color 1: Flat lens 2: Dome lens 4: 2 lens
- PCB material: W: Glass
- TR: Taping (Standard)

▼CHARACTERISTICS BY COLOR

Ta=25℃

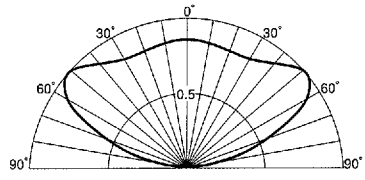
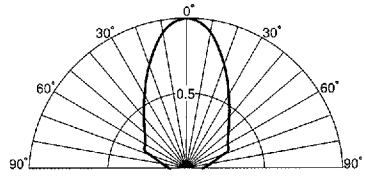
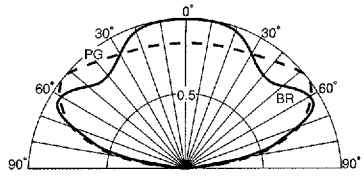
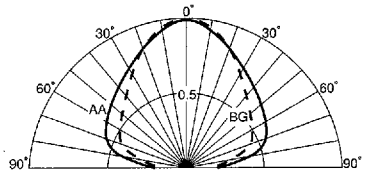
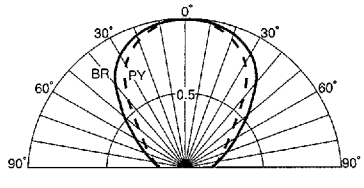
Type No.	Material / Emitted Color	Absolute Maximum Ratings: Power Dissipation ※ Pd	Forward Current ※ IF	Peak Forward Current ※ IFM	Reverse Voltage VR	Operating Temperature Topr	Storage Temperature Tstg	※1 Derating ΔIF	Electro-Optical Characteristics: Forward Voltage VF TYP.	VF MAX.	IF	Reverse Current IR MAX.	VR	Wavelength: Peak λp TYP.	Spectral Line Half Width Δλ 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
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		mA	μA	V	nm		mA

●IFM condition: tw≦1 msec. and duty cycle≦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℃

Lens Type	Shape	Type No.	Emitted Color	Lens	Peak Wave Length (nm)	Luminous Intensity (mcd) MIN.	TYP.	IF(mA)	Spatial Distribution (The typical distribution example of each shape is shown below.)	fig.
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		
		BG1101W	Pure Green		555	0.7	1.4	20		
Inner-lens type		BR1102W	Red	Water Clear	660	6	17	20		2
		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		
		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		3
			Yellow		570	1.4	4	20		
		BRPG1201W	Red		660	1.6	4.5	20		
			Green		560	1.2	3	20		
		BRBG1201W	Red		660	1.6	4.5	20		
			Pure Green		555	0.7	1.4	20		
		AAPY1201W	Orange		605	1	3.6	20		
			Yellow		570	1.4	4	20		
Dome lens type		BRPY1202W	Red	Water Clear	660	3.2	9	20		4
			Yellow		570	2.8	8	20		
		BRPG1202W	Red		660	3.2	9	20		
			Green		560	2.4	6	20		
		BRBG1202W	Red		660	3.2	9	20		
			Pure Green		555	0.8	1.8	20		
		AAPY1202W	Orange		605	4	7.2	20		
			Yellow		570	2.8	8	20		
2 lens		BRPY1204W	Red	Water Clear	660	6	17	20		5
			Yellow		570	6	12	20		
		BRPG1204W	Red		660	6	17	20		
			Green		560	3	7.5	20		
		BRBG1204W	Red		660	6	17	20		
			Pure Green		555	0.9	2.3	20		
		AAPY1204W	Orange		605	5	9	20		
			Yellow		570	6	12	20		

▼PACKAGE DIMENSIONS Unit : mm

fig. 1

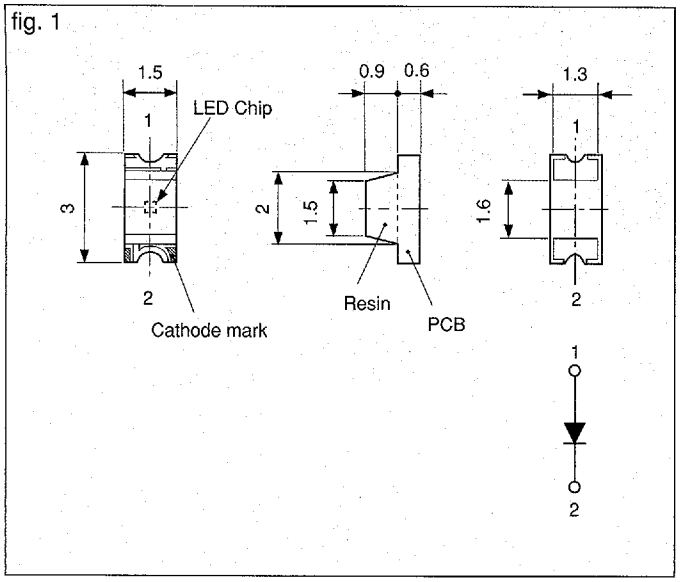


fig. 2

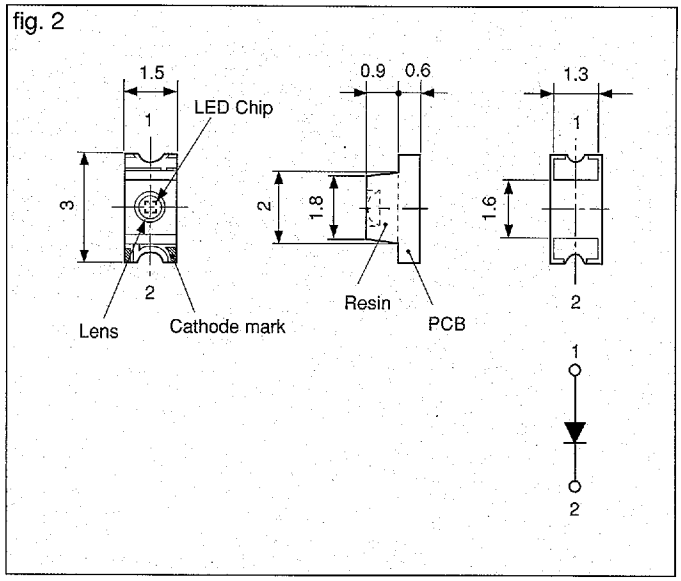


fig. 3

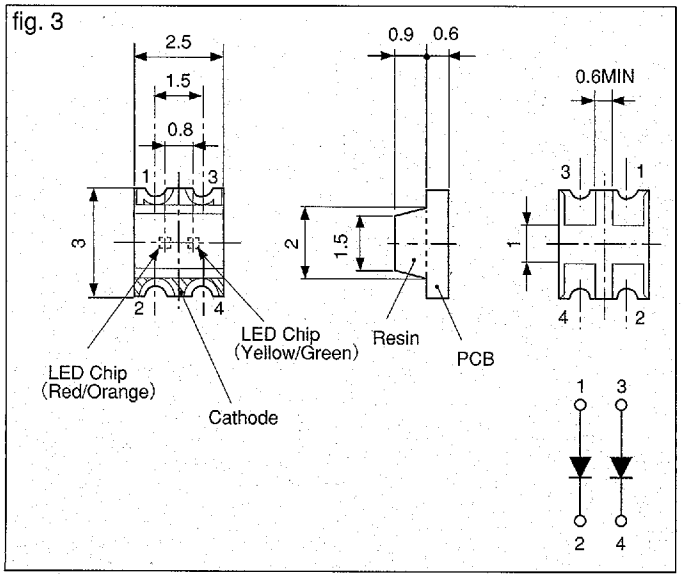


fig. 4

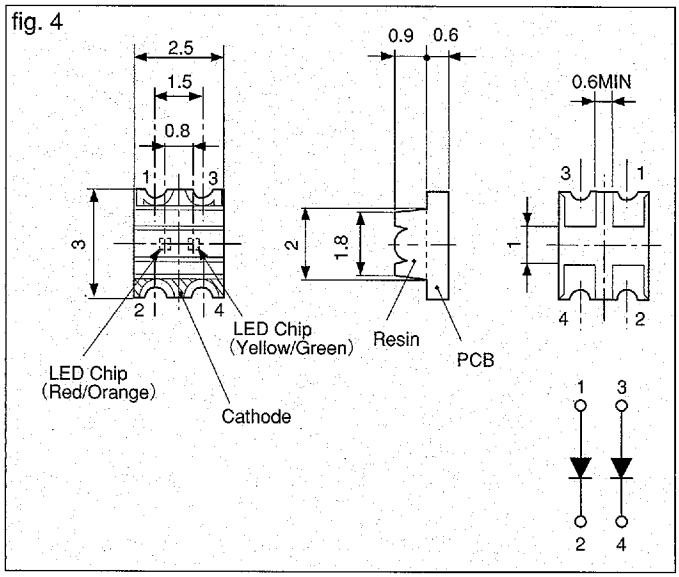
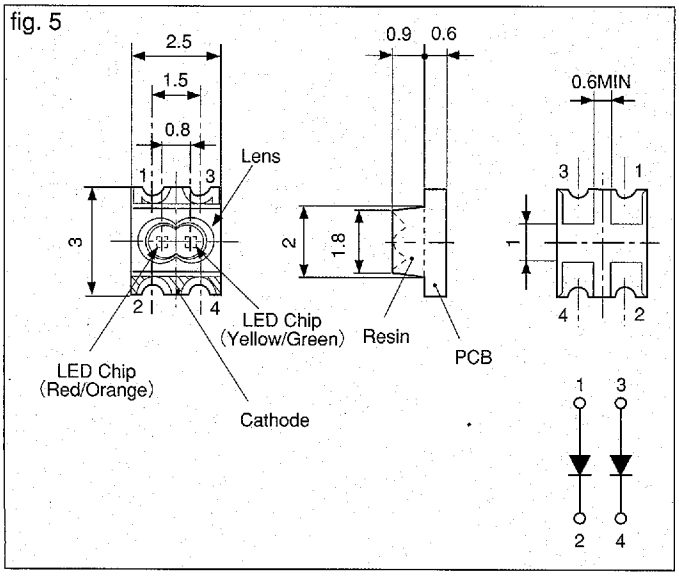
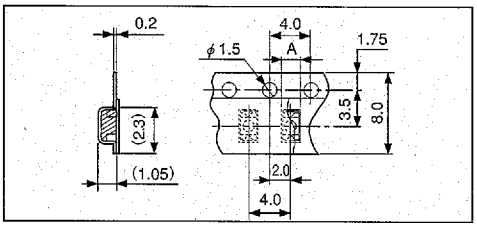


fig. 5



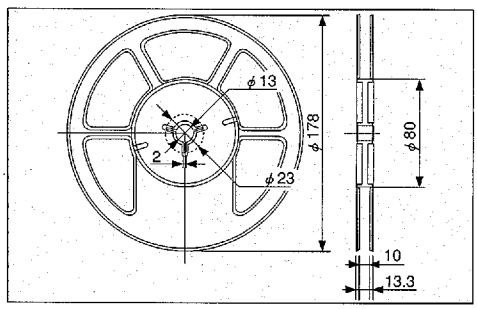
▼Taping specification Unit : mm



A Dimension
(Tolerance : ±0.1)

1CHIP	1.8
2CHIPS	2.8

▼Reel specification Unit : mm



Quantity (Pcs./Reel)

1CHIP	2,500
2CHIPS	2,500