

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 PR VR AA AY PY PG BG	Chip Type	1 2 Chips	Color clear	W Glass	Standard	Standard
				Shape		
				1. Single color		
				2. Flat lens		
				3. Inner lens		
				4. Bi color		
				1. Flat lens		
				2. Dome lens		
				4. 2 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		
		※ Pd	※ If	※ IfM	V _R	T _{opr}	T _{stg}	ΔIf	TYP.	MAX.	I _F	MAX.	V _R	Peak λ _p TYP.	Spectral Line Half Width Δλ TYP.	I _F
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	°C	°C	mA/°C	V	mA	μA	V	nm	nm	mA	

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

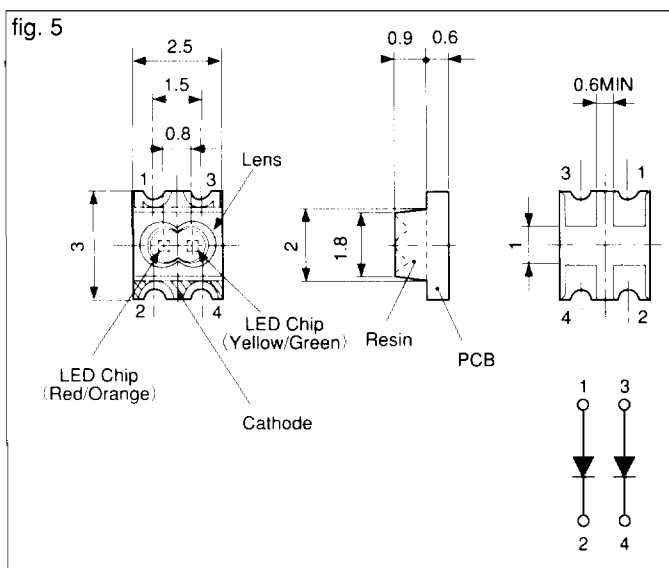
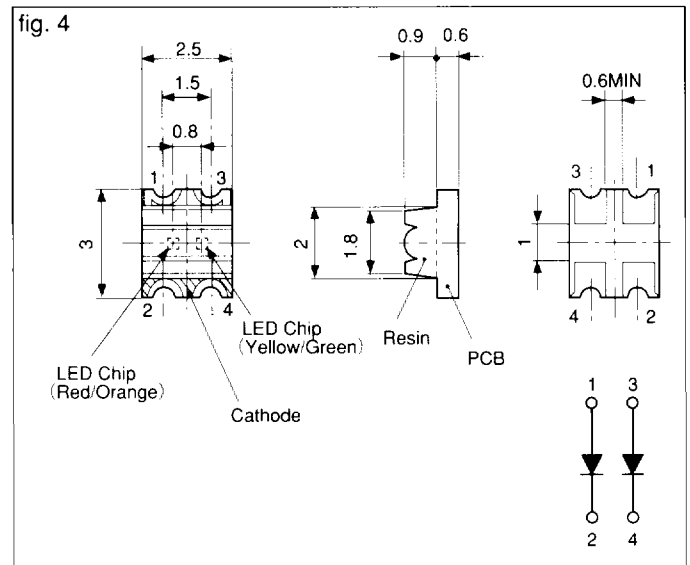
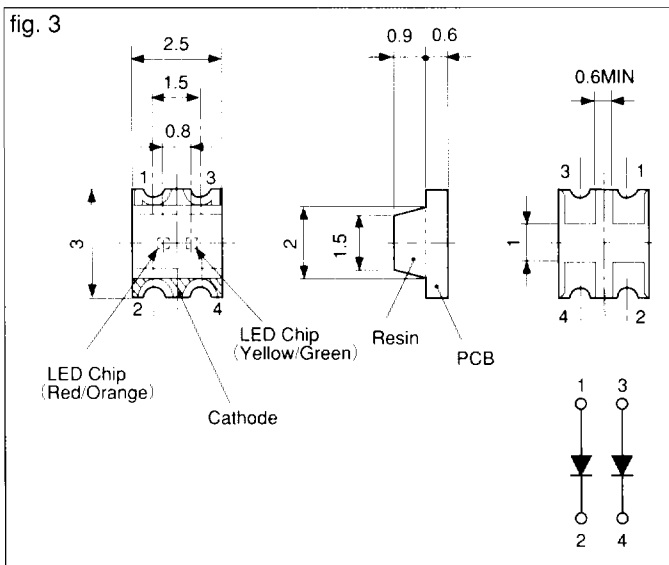
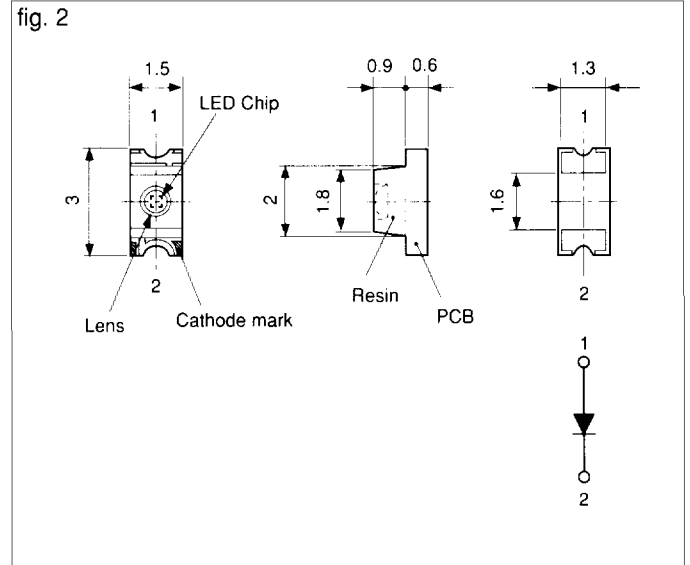
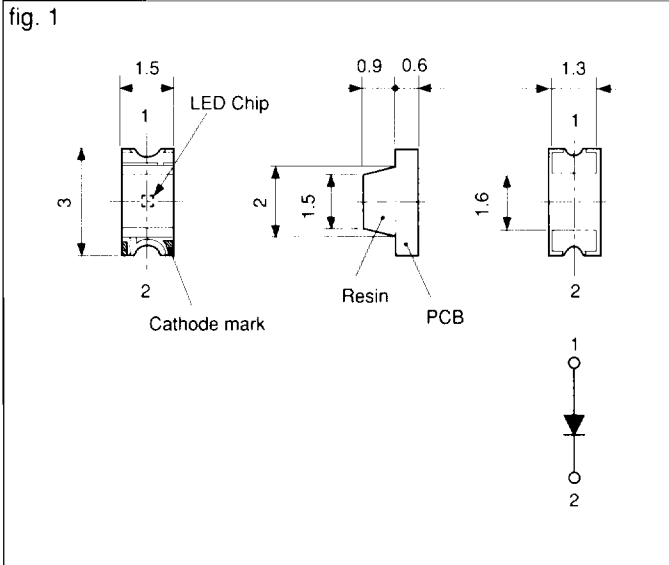
⊙ 2 Absolute maximum ratings required by the LED with 2 chips inside and driven simultaneously are: Pd=75mW, I_F=70mA

CHARACTERISTICS BY SHAPE

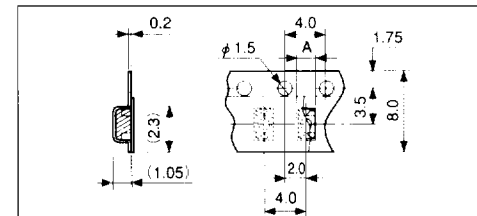
Ta=25°C

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.	I _F (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	605		1	3.6	20			
		AY1101W	580		2	3.2	20			
		PY1101W	570		1.4	4	20			
		PG1101W	560		1.2	3	20			
		BG1101W	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	605		5	9	20			
		AY1102W	580		3	6	20			
		PY1102W	570		6	12	20			
		PG1102W	560		3	7.5	20			
		BG1102W	555		0.9	2.3	20			
Flat lens type		BRPY1201W	Red	Water Clear	660	1.6	4.5	20		3
		BRPG1201W	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		
		BRBG1201W	Pure Green		555	0.7	1.4	20		
			Orange		605	1	3.6	20		
		AAPY1201W	Yellow		570	1.4	4	20		
Dome lens type		BRPY1202W	Red	Water Clear	660	3.2	9	20		4
		BRPY1202W	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		
		AY1202W	Yellow		570	2.8	8	20		
2 lens		BRPY1204W	Red	Water Clear	660	6	17	20		5
		BRPY1204W	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		
		AY1204W	Yellow		570	6	12	20		

▼PACKAGE DIMENSIONS Unit : mm



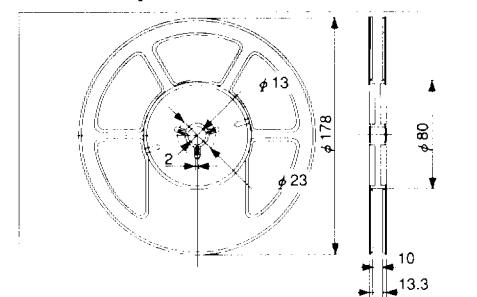
▼Taping specification Unit : mm



A Dimension
(Tolerance : ±0.1)

1CHIP	1.8
2CHIPS	2.8

▼Reel specification Unit : mm



Quantity (Pcs./Reel)

1CHIP	2,500
2CHIPS	2,500

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