

Technical Data Sheet

MODEL NO: 155R/YG4

3.2mm*2.7mm*1.1mm Package Bi Color SMD

Features:

•Package in 8mm tape on 7" diameter reel

•Compatible with automatic placement equipment

•Compatible with reflow solder process

Applications:

Indicators

•Automotive : backlighting in dashboard and switch

Backlight for LCD

Dice material	Emitted color	Lens Color
GaAsP/GaP	Red	Water transporent
GaP/GaP	Green	Water transparent

Electrical/Optical Characteristics(Ta=25°C)

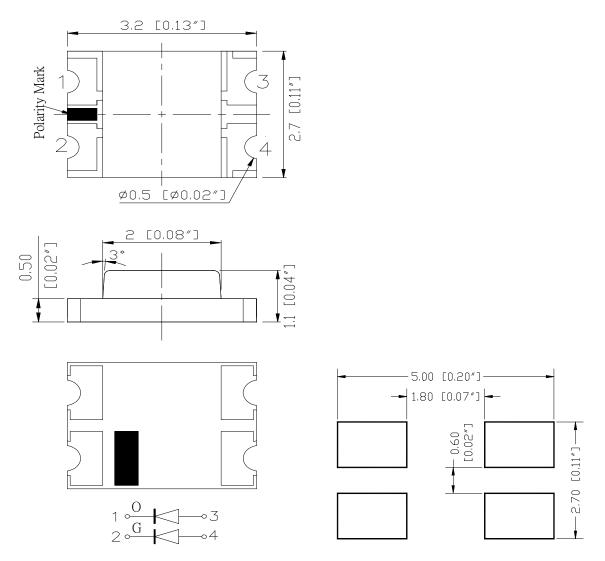
Parameter	Test	Symbol		Value			Unit
	Condition	Symbol	Min	Тур	Max	Unit	
Spectral half bandwidth	IF=20mA	$ riangle \lambda$	R		35		nm
			G		30		
Dominant wavelength	IF=20mA	λD	R	615	620	630	nm
			G	565	570	576	
Forward voltage	IF=20mA	VF	R	1.7	2.0	2.5	V
			G	1.7	2.0	2.5	
Luminous intensity	IF=20mA	lv	R	5.0	12	20	mcd
			G	5.0	15	25	
Viewing angle at 50% Iv	IF=10mA	2 <i>0</i> 1/2			140		Deg
Reverse current	V _R =5V	lr				10	μA



Absolute Maximum Ratings(Ta=25°C)

Parameter	Symbol	Value		Unit
		R	G	
Power dissipation	Pd	75	75	mW
Forward current	lf	30		mA
Reverse voltage	Vr	5		V
Operating temperature range	Тор	-40 ~+80		°C
Storage temperature range	Tstg	-40 ~+85		°C
Peak pulsing current (1/8 duty f=1kHz)	IFP	125		mA

PACKAGING DIMENSIONS (mm):



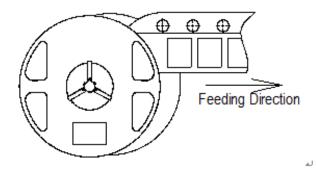
NOTES:

1. All dimensions are in millimeters (inches); 2. Tolerances are ± 0.1 mm (0.004inch) unless otherwise noted.

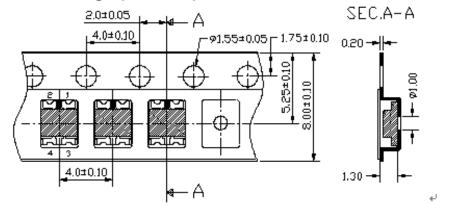


● Feeding Direction

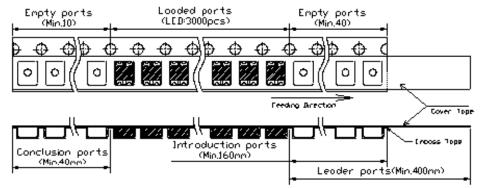
● Dimensions of Reel (Unit: mm)+



● Dimensions of Tape (Unit: mm)+



● Arrangement of Tape



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■ NOTES+/

- 1. Empty component pockets are sealed with top cover tape;+/
- 2. The maximum number of missing lamps is two;+/
- 3. The polarity mark is oriented towards the tape sprocket hole ;+/
- 4. 3,000pcs/Reel.+/



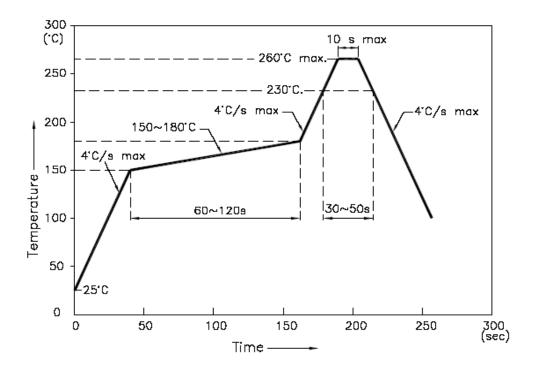
Precautions For Use :

Over - current - proof

Customer must apply resistors for protection, otherwise slight voltage shift will cause big current change (Burn out will happen)

Storage

- 1. The operation of temperature and R.H. are : 5° C ~ 30° C , 60°_{0} R.H. Max.
- 2. Once the package is opened, the products should be used within a week. Otherwise, they should be kept in a dampproof box with desiccating regent. Considering the tape life, we suggest our customers to use our products within 1.5 year (from production date).
- 3. It's recommended to bake before soldering when the package is unsealed after 72 hrs. The condition is : $60^{\circ}C\pm 5^{\circ}C$ for 15 hrs.
- Reflow Temp/Time



NOTES:

- 1. We recommend the reflow temperature $245^{\circ}C(\pm 5^{\circ}C)$.the maximum soldering temperature should be limited to $260^{\circ}C$.
- 2. don't cause stress to the epoxy resin while it is exposed to high temperature.
- 3. Number of reflow process shall be 2 times or less.



■Soldering iron

Basic spec is ≤ 5 sec when 260°C. If temperature is higher, time should be shorter (+10°C \rightarrow -1sec).Power dissipation of iron should be smaller than 20W, and temperatures should be controllable .Surface temperature of the device should be under 230°C .

Rework

- 1. Customer must finish rework within 5 sec under 260° C.
- 2. The head of iron can not touch copper foil
- 3. Twin-head type is preferred.

