

DEVICE NUMBER : DLE-952-023 REV : 1.2

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## 1.9mm Round Subminiature "Gull Wing" Lead (Square Base) LEDs

MODEL NO : 95-21VGC/TR7

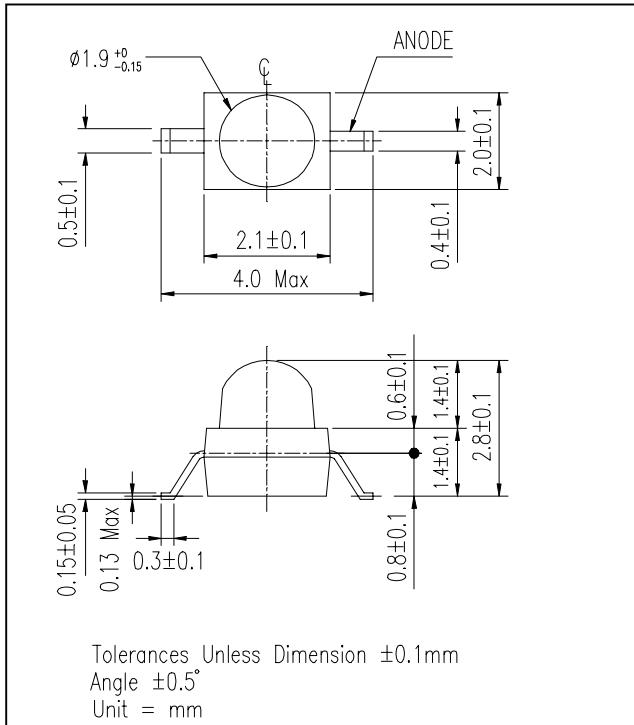
### ■ Features :

- Compatible with automatic placement equipment.
- Compatible with infrared and vapor phase reflow solder process.
- IC compatible.
- EIA std package.
- Mono-color type.

### ■ Descriptions :

- Besides, light weight makes them ideal for miniature applications, etc.
- Furthermore by automation assembly machines, the accuracy is anticipated.

### ■ Package Dimensions :



### ■ Applications :

- Small indicator for outdoor applications.
- Flat backlight for LCD, switches and symbols.
- Indicator and backlight in office equipment.
- Indicator and backlight for battery driven equipment.
- Indicator and backlight for audio and video equipment.
- Automotive : backlighting in dashboards and switches.
- Telecommunication : indicator and backlighting in telephone and fax.
- General use.

PART NO.	Chip		Lens Color
	Material	Emitted Color	
95-21VGC/TR7	GaP	Green	Water Clear

OFFICE : NO. 25,Lane 76,Sec.3, Chung Yang Rd., Tucheng 236, Taipei, Taiwan, R.O.C.

TEL : 886-2-2267-2000,2267-9936

FAX : 886-2-2267-6244,22676189,22676306

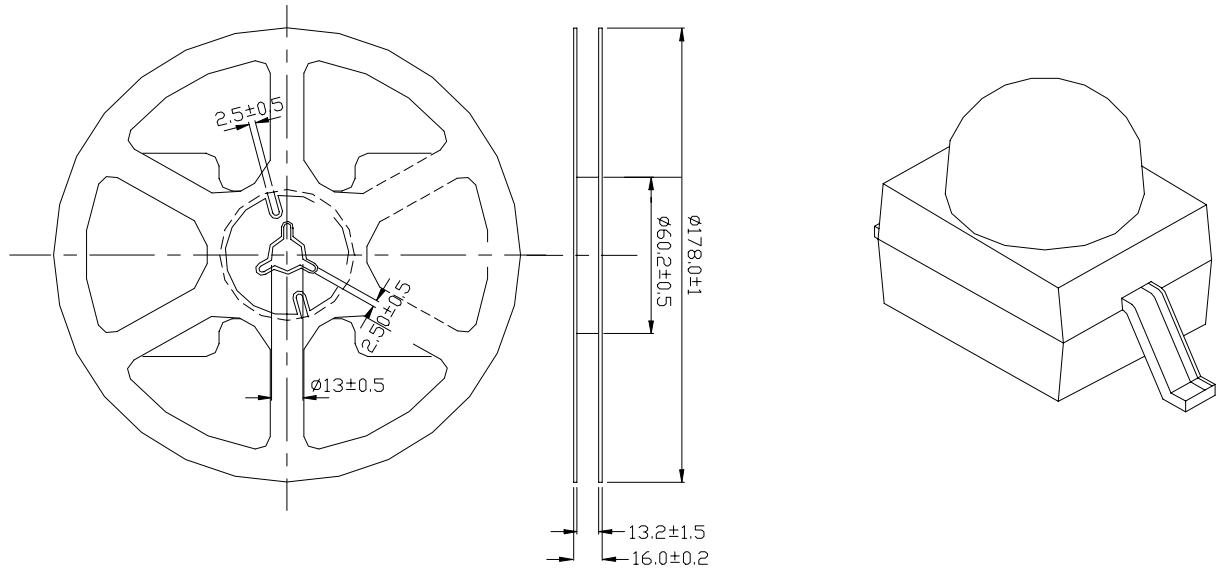
<http://www.everlight.com>

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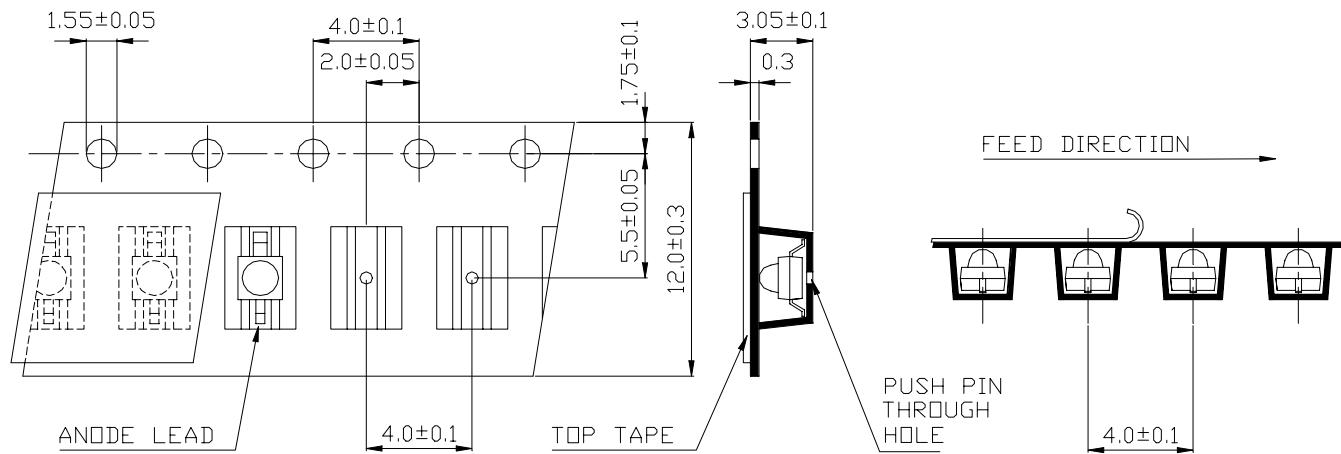
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## ■ Package Dimensions



## ■ Loaded Quantity Per Reel 1000 Pcs/Reel



1. All dimensions are in millimeters .
2. Lead spacing is measured where the leads emerge from the package.
3. Protruded resin under flange 1.5 mm (0.59") max.



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### ■ Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Rating	Unit
Reverse Voltage	V <sub>R</sub>	5	V
Forward Current	I <sub>F</sub>	30	mA
Operating Temperature	T <sub>opr</sub>	-40 ~ +85	°C
Storage Temperature	T <sub>stg</sub>	-40 ~ +100	°C
Soldering Temperature	T <sub>sol</sub>	260 ± 5 (for 5 sec)	°C
Power Dissipation	P <sub>d</sub>	100	mW
Peak Forward Current(Duty 1/10 @ 1KHZ)	I <sub>F</sub> (Peak)	160	mA

### ■ Electronic Optical Characteristics :

Parameter	Symbol	MIN.	TYP.	MAX.	Unit	Condition
Luminous Intensity	I <sub>v</sub>	30	50	----	mcd	I <sub>F</sub> = 20mA
Viewing Angle	2θ 1/2	----	25	----	deg	
Peak Wavelength	λ <sub>p</sub>	----	570	----	nm	
Dominant Wavelength	λ <sub>d</sub>	----	571	----	nm	
Spectrum Radiation Bandwidth	△λ	----	30	----	nm	
Forward Voltage	V <sub>F</sub>	1.7	2.1	2.4	V	
Reverse Current	I <sub>R</sub>	----	----	10	μA	



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### ■ Reliability Test Items And Conditions

NO.	Item	Test Conditions	Test Hours/ Cycle	Sample Size	Ac/Re
1	Solder Heat	TEMP : $260^{\circ}\text{C} \pm 5^{\circ}\text{C}$	5 SEC	76 PCS	0/1
2	Temperature Cycle	H : $+85^{\circ}\text{C}$ 30 min ↓ L : $-55^{\circ}\text{C}$ 30 min	5 min 50 CYCLE	76 PCS	0/1
3	Thermal Shock	H : $+100^{\circ}\text{C}$ 5 min ↓ L : $-10^{\circ}\text{C}$ 30 min	10 sec 50 CYCLE	76 PCS	0/1
4	High Temperature Storage	TEMP. : $+100^{\circ}\text{C}$	1000 HRS	76 PCS	0/1
5	Low Temperature Storage	TEMP. : $-55^{\circ}\text{C}$	1000 HRS	76 PCS	0/1
6	DC Operating Life	$I_F = 20\text{ mA}$	1000 HRS	76 PCS	0/1
7	High Temperature / High Humidity	$85^{\circ}\text{C} / 85\%$ R.H.	1000 HRS	76 PCS	0/1

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DEVICE NUMBER : DLE-952-023 REV : 1.2ECN : \_\_\_\_\_ PAGE : 5/5**1.9mm Round Subminiature "Gull Wing" Lead (Square Base) LEDs**MODEL NO : 95-21VGC/TR7**■ Typical Electro-Optical Characteristic Curves**