



EVERLIGHT ELECTRONICS CO.,LTD.

DEVICE NUMBER : DLE-952-180 REV : 1.0
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1.8mm Round Subminiature "Gull Wing" Lead LEDs

MODEL NO : 95-21UYD/S400-A5/S69/TR7

Features :

- Package in 12mm tape on 7" diameter reels.
- Compatible with automatic placement equipment.
- Compatible with infrared and vapor phase reflow solder process.
- IC compatible.
- EIA std package.
- Mono-color type.

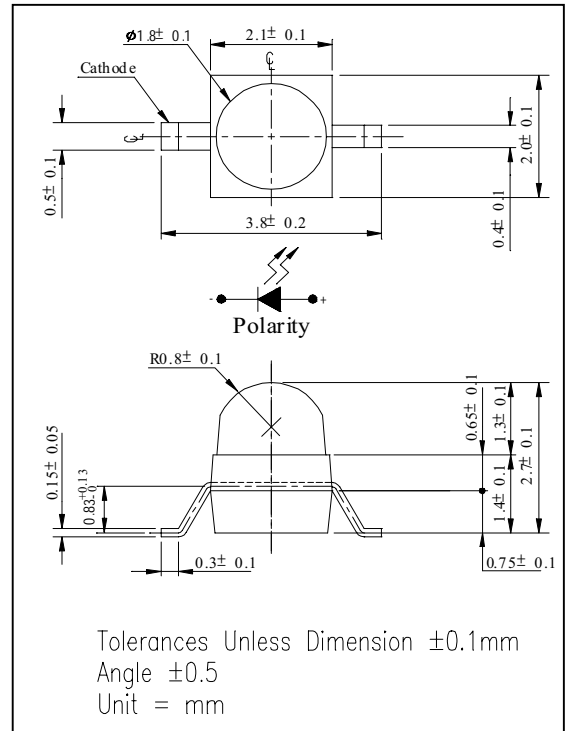
Descriptions :

- The 95-21 SMD taping is much smaller than leaded compoments. Thusenable smaller board size.Higher packing density. Reduced storage space and finally smaller equipment to be obtained.
- Besides, light weight makes them ideal for miniature application, ect.
- Furthermore by automation assembly machines the accuracy is anticipated.

Applications :

- Small indicator for outdoor applications.
- Flat backlight for LCD, switches and symbols.
- Indicator and backlight in offic 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.

Package Dimensions :



Part No.	Chip		Lens Color
	Mterial	Emitted Color	
95-21UYD/S400-A5/S69/TR7	AlGaInP	Super Yellow	Color Diffused

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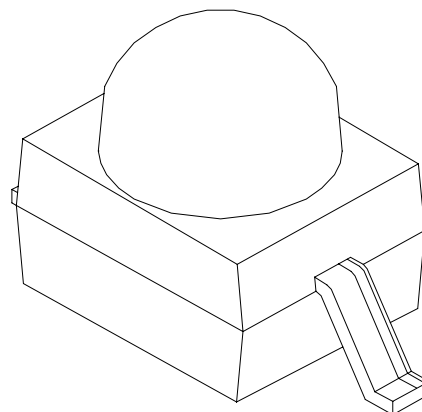


Figure 1: Dimensions of the test specimen. The diagram shows a top view and a side view of a rectangular specimen. The top view includes dimensions for the anode lead (1.55±0.05), top tape (4.0±0.1), and various other features. The side view shows the thickness (12.0±0.3) and the feed direction. A detail view shows the push pin through hole (4.0±0.1).

1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. LEAD SPACING IS MEASURED WHERE THE LEAD EMERGE FROM THE PACKAGE
3. PROTRUDED RESIN UNDER FLANGE 1.5 mm (0.59") MAX.

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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°C ± 5 °C	5 sec	76 pcs	0/1
2	Temperature Cycle	H : +85°C 30 min ↑ 5 min ↓ L : -55°C 30 min	50 cycle	76 pcs	0/1
3	Thermal Shock	H : +100°C 5 min ↑ 10 sec ↓ L : -10°C 30 min	50 cycle	76 pcs	0/1
4	High Temperature Storage	TEMP. : +100°C	1000 hrs	76 pcs	0/1
5	Low Temperature Storage	TEMP. : -55°C	1000 hrs	76 pcs	0/1
6	DC Operating Life	If = 20 mA	1000 hrs	76 pcs	0/1
7	High Temperature / High Humidity	85°C / 85% R.H.	1000 hrs	76 pcs	0/1



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■ Specifications For Bin Grading :

Iv at If = 20 mA → " CAT "

Bin Grading	Min.	Typ.	Max.	Unit
Bin 1	200	-----	280	mcd
Bin 2	224	-----	313	
Bin 3	250	-----	350	

 λ D at If = 20 mA → " HUE "

Bin Grading	Min.	Typ.	Max.	Unit
Bin 1	585	-----	588	nm
Bin 2	587	-----	590	
Bin 3	589	-----	592	

Vf at If = 7 mA → " REF "

Bin Grading	Min.	Typ.	Max.	Unit
Bin 1	1.7	-----	2.1	mcd
Bin 2	1.9	-----	2.3	mcd



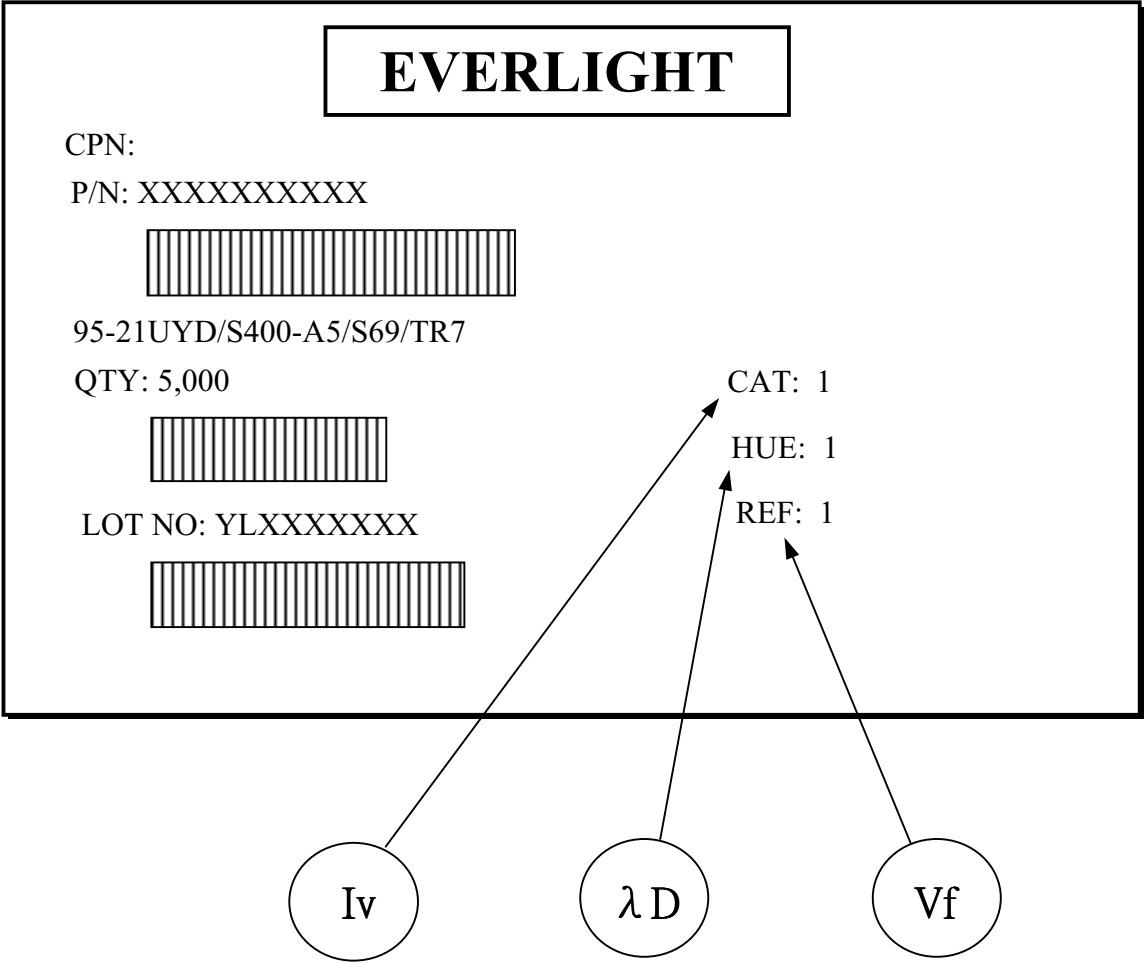
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■ Signification Of The Lable :





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Typical Electro-Optical Characteristic Curves

