



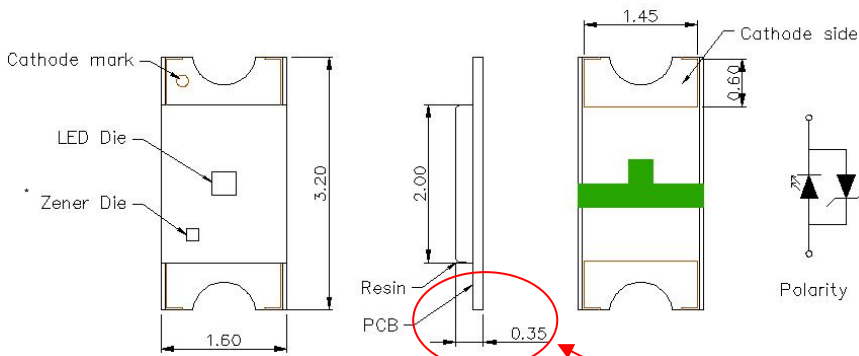
NICOMATIC is certified  
 ISO9001:2008 / EN9100:2009

# SUPER ULTRATHIN LEDs 0.35mm



## Description

Nicomatic **SMD Super UltraThin LEDs** maintain easy to place length & width and are thin enough to eliminate embossing and reduce spacer material thickness.



\*Zener die on white & blue only  
 Outline dimension (mm) – tolerance +/-0.1

**New height  
 0.35mm!**



## Ordering information

Part Number (packed by 3k)	Lens	Lighting Colour	VF			Die Material	Wave- Length (nm)			Iv (mcd) @20 mA		Viewing Angle
			IF (mA)	Typ (V)	Max. (V)		Max.	Typ	Delta	Min. (mcd)	Typ. (mcd)	
ZQR35W-035	Water clear	Red	20	2.00	2.40	AlGaInP	634	650	20	45	100	140
ZQO35W-035	Water clear	Orange	20	2.05	2.40	AlGaInP	600	611	17	45	110	140
ZQY35W-035	Water clear	Yellow	20	2.05	2.40	AlGaInP	584	591	15	45	105	140
ZQG35W-035	Water clear	Green	20	2.10	2.40	AlGaInP	567	573	15	30	100	140
ZQB35W-035	Water clear	Blue	20	3.30	3.80	InGaN	465	475	20	75	150	140
ZQW35W-035	Water clear	White	20	3.30	3.70	InGaN	X=0.29 Y=0.31	–	–	300	500	140

### ADVANTAGES

- 0.35mm high!**
- Easy to place size vs. other packagings:**  
Overall size: 3.2 x 1.6 x 0.35mm (1206)
- Reduce spacer thickness and/or eliminate embossing**
- Market standard tape & reel for automated pick & place machines
- Short lead-time**
- High ESD value for all colours (zener die)**
- Long Shelf-life: 12 months min. in sealed bag

### APPLICATIONS

- Keyboard backlighting (membrane switch)
- Status indicators
- Hand-held & miniature devices
- Dashboards & switches
- Computer Network Systems



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## Technical Features

<p style="text-align: center;"><b>Values Ta = 25°C</b> Absolute Maximum Ratings Tolerance ±0.05V</p> <p><b>Current rating</b></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Reverse voltage (VR)</td> <td>5V</td> </tr> <tr> <td>Forward current (IF)</td> <td>30 mA (20mA for W &amp; B)</td> </tr> <tr> <td>Operating temperature (Topr)</td> <td>-30°C to +80°C</td> </tr> <tr> <td>Storage temperature (Tst)</td> <td>-40°C +90°C</td> </tr> <tr> <td>Soldering temperature (Tsol)</td> <td>260°C on 5 seconds</td> </tr> <tr> <td>Electrostatic Discharge (ESD)</td> <td>2000 V (all colours)</td> </tr> <tr> <td>Power Dissipation (Pd)</td> <td>72 mW (78mW for W &amp; B)</td> </tr> <tr> <td>Peak Forward Current</td> <td>100 mA (80mA for W &amp; B)</td> </tr> <tr> <td>VF and Iv (mcd) @20mA</td> <td>see chart page 1</td> </tr> </table>	Reverse voltage (VR)	5V	Forward current (IF)	30 mA (20mA for W & B)	Operating temperature (Topr)	-30°C to +80°C	Storage temperature (Tst)	-40°C +90°C	Soldering temperature (Tsol)	260°C on 5 seconds	Electrostatic Discharge (ESD)	2000 V (all colours)	Power Dissipation (Pd)	72 mW (78mW for W & B)	Peak Forward Current	100 mA (80mA for W & B)	VF and Iv (mcd) @20mA	see chart page 1	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><b>Forward Current vs. Ambient Temperature</b></p> </div> <div style="text-align: center;"> <p><b>Forward Voltage vs. Forward Current</b></p> </div> </div>
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## Packing & Labeling

**EIA 481-1A specs**

EIAJ-RRM 08 B  
RL07120900

Label sticking position

Unit: mm

Polarity

Dim. A	Dim. B	Dim. C	Qty/Reel
1.83±0.05	3.43±0.05	0.52±0.05	3 000

For complete specification, please download our  
"Product Specification For Top Emitting Surface Mount LED"