



NICOMATIC

CREATIVE
INTERCONNECT
SOLUTIONS

Product
datasheet



LED

MEMBRANE-THIN
0.35 mm HIGH

ADVANTAGES

- 0.35mm high
- Easy to place size versus other packaging
- Reduce spacer thickness and/or eliminate embossing (cost reduction)
- Market standard tape & reel for automated pick & place machines (3 000 LEDs per reel)
- High ESD value for all colors

FUNCTIONALITIES

- Specific DESIGN for Printed Conductive Ink

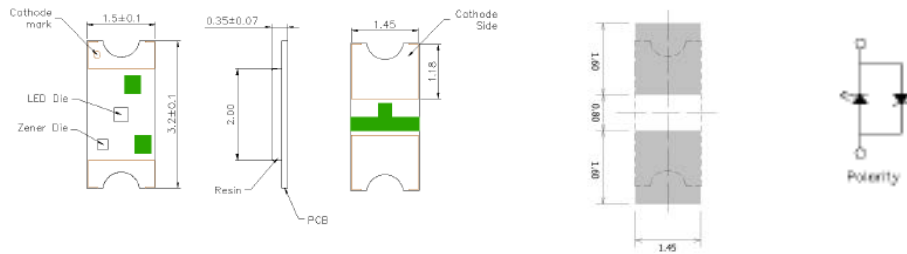
TECHNICAL DATA

ELECTRO-OPTICAL CHARACTERISTICS (I_F=20mA / Ta=25° C)

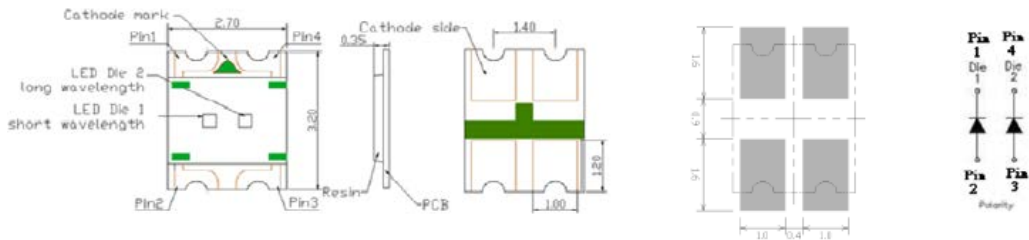
Part Number	Lens Type	Emitting Color	Dominant Wavelength λ _d (nm)	Luminous Intensity I _v (mcd)		Forward Voltage VF (V)		Reverse Current I _R max (μA) @ V _R = 5V
				Min.	Typ.	Typ.	Max.	
ZQR35W-035	Water Clear	Red	634	28.5	100	2	2.4	100
ZQO35W-035	Water Clear	Orange	600	60	120	2.05	2.4	100
ZQY35W-035	Water Clear	Yellow	584	60	120	2.05	2.4	100
ZQG33W-035	Water Clear	Green	567	28.5	80	2.1	2.4	100
ZQB35W-035	Water Clear	Blue	465	45	60	3.3	3.8	100
ZQW35D-035	Water Clear	White	-	300	500	3.3	3.7	100
BQRQG35W-035	Water Clear	Red	619	28.5	100	2	2.4	100
		Green	567	28.5	80	2.1	2.4	
BQYQG35W-035	Water Clear	Yellow	584	45	115	2.05	2.4	100
		Green	567	28.5	80	2.1	2.4	
BQRQY35W-035	Water Clear	Red	619	28.5	100	2	2.4	100
		Yellow	584	45	115	2.05	2.4	

PACKAGE DIMENSION & RECOMMENDED SOLDER PATTERN

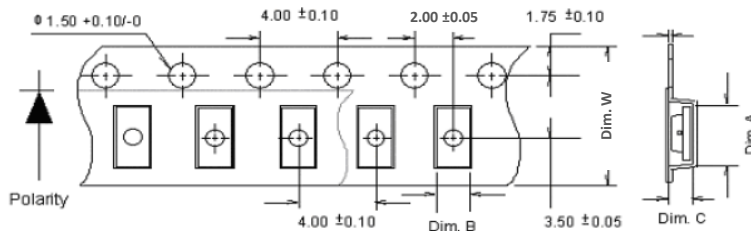
Mono-color type



Bi-color type



CARRIER TAPE DIMENSION



	Dim. W (mm)	Dim. A (mm)	Dim. B (mm)	Dim. C (mm)
Mono-color tape	8.00 ± 0.20	3.40 ± 0.05	1.80 ± 0.05	0.50 ± 0.05
Bi-color tape	12.00 ± 0.20		2.80 ± 0.05	

TECHNICAL DATA

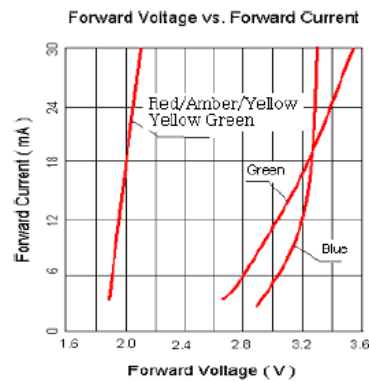
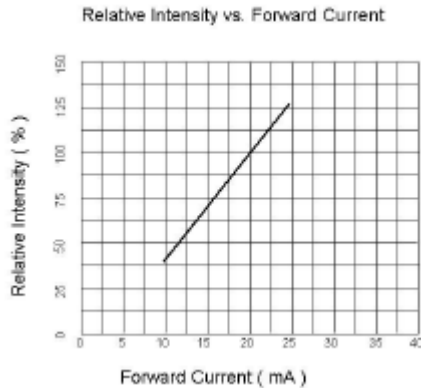
PRODUCT CHARACTERISTICS (ABSOLUTE MAXIMUM RATINGS)

	Red / Orange / Yellow / Green	Blue	White
Reverse voltage V_R	5V		
Forward current I_F	30 mA	20 mA	20 mA
Peak Forward Current I_{FP} (Duty 1/10 @ 1KHz)	100 mA	80 mA	80 mA
Power Dissipation P_d	72 mW	78 mW	78 mW
Electrostatic Discharge (ESD)	2000 V		
Operating temperature T_{opr}	-40°C to +85°C		
Storage temperature T_{stg}	-40°C to +100°C		
Soldering temperature T_{sol}	220°C for 60 sec. 260°C for 10sec.		

Tolerances:

- Luminous Intensity (I_v): $\pm 10\%$
- Dominant Wavelength (λ_d): $\pm 0.5nm$
- Forward Voltage (V_f): $\pm 0.05V$

TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES



OTHER INFORMATION

PRECAUTIONS FOR USE

Electrostatic Discharge (ESD) protection



The symbol to the left denotes that ESD precaution is needed. ESD protection for GaP and AlGaAs based chips is necessary even though they are relatively safe in the presence of low static-electric discharge. Parts built with AlInGaP, GaN, or/and InGaN based chips are **STATIC SENSITIVE devices. ESD precaution must be taken during design and assembly.** If manual work or processing is needed, please ensure the device is adequately protected from ESD during the process.