HPWG-N510

SnapLED Six LED Multi-Function Signal

Technical Data DS10

Using Lumileds' patented solderless clinch technology and SnapLED emitters, this six-LED round assembly is an integrated LED signal solution complete with control circuitry. By using two input terminals, the signal may switch between two brightness modes. The product features a compact and rugged design and provides a cost effective source for vehicle Turn-Tail-Stop lamps.



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- Integrated LED Solution for Turn/Tail/Stop Applications
- Life of Vehicle Light Source
- Standard Design for Multiple Vehicle Applications
- Rugged and Compact

Features

- Drive Circuitry and
- Connector Pins Included
- Compact, Low Profile
 Package
- Light Source Sufficient for SAE/ECE/JIS Stop/Tail Requirements





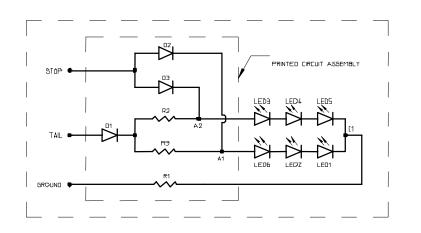
Optical & Electrical Characteristics

Part Number	LED Color	Voltage (V)	Mode	4	LUX ^[1,2,3] D _v m) MAX.	Pov Consum Min.	wer Ption (W) Max.
HPWG-N5 I O	Red- Orange		_				
		12.8	STOP	39.5	81.3	2.8	3.5
			Tail	3.7	7.8	0.19	0.23
		13.5	STOP	41.8	86. I	3.3	4.1
			Tail	4.1	8.6	0.22	0.25

Color Characteristics

λ _d Part Number (nm)

Circuit Schematic



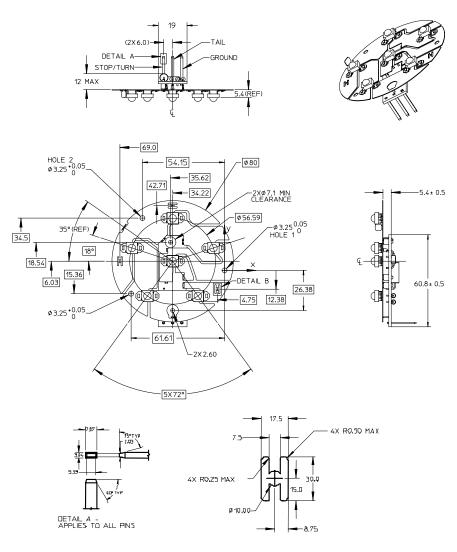
Notes:

- 1. ϕ_v is the total steady state flux of the assembly after thermal stabilization.
- 2. The thermal resistance assumed is $R_{tt-junction-ambient}$ =12.9°C/W, which represents the thermal resistance of the LED assembly when the substrate is potted in epoxy resin. To determine junction temperature, multiply R_{tt} by power consumption and add to ambient temperature.
- 3. No LED emits more than 2 times the flux of any other LED within the same assembly.

Notes:

- 1. The dominant wavelength is derived from the CIE Chromaticity Diagram and represents the perceived color of the signal.
- 2. The dominant wavelength does not vary between emitters by more than 8nm within the same assembly.

Outline Drawing



DETAIL 8 -APPLIED TO ALL SPEEDNUTS

Notes:

- 1. See SnapLED 150 datasheet for emitter (HPWS-TH00) specifications. Dimensions are in millimeters.
- 2.
- 3. Dimensions without tolerances are nominal.

Absolute Maximum Ratings

Parameter	HPWG-N5 I O	Units
DC INPUT OPERATING VOLTAGE	16	V
Power Dissipation (Stop)	3.5 (@12.8V)	W
Power Dissipation (Stop)	4.1 (@13.5V)	W
Reverse Voltage (Stop & Tail)	500 (@ I_R = 200 μ_A)	V
Operating Temperature Range ^[2]	-40 то +85 (@I2.8V)	°C
Operating Temperature Range ^[2]	-40 то +85 (@I3.5V)	°C
Operating Temperature Range ^[2]	-40 то +25 (@I5.5V)	°C
Storage Temperature Range	-55 то + I ОО	°C
LED JUNCTION TEMPERATURE	125	°C

- Notes: 1. 16V operation is allowed at $T_{ambient}$ =25°C only.
- 2. Temperature range for sustained operation based on R_{th-junction-} ambient=12.9°C/W.

Company Information

Lumileds is a world-class supplier of Light Emitting Diodes (LEDs) producing billions of LEDs annually. Lumileds is a fully integrated supplier, producing core LED material in all three base colors (Red, Green, Blue) and White. Lumileds has R&D development centers in San Jose, California and Best, The Netherlands. Production capabilities in San Jose, California and Malaysia.

Lumileds is pioneering the high-flux LED technology and bridging the gap between solid-state LED technology and the lighting world. Lumileds is absolutely dedicated to bringing the best and brightest LED technology to enable new applications and markets in the Lighting world.



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