

Product Brief

SnapLED

Six LED Multifunction Signal Assembly

This SnapLED Six LED Multifunction Signal Assembly is an integrated LED turn/tail/stop lamp solution complete with control circuitry on a high conductivity metal frame using Philips Lumileds' patented solderless clinch technology. Integrated with two input terminals, the signal may switch between two brightness modes for vehicle turn-tail-stop functions. SnapLED Six LED Multifunction Signal Assembly is designed for multiple exterior applications and offers rugged, highly reliable features to meet the high requirements of exterior signal lighting.

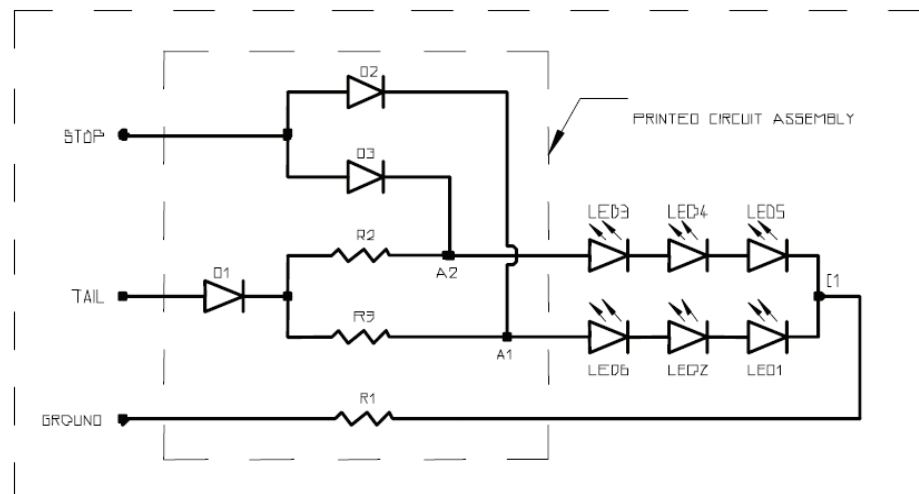
Benefits:

- Simpler design-in and reduced manufacturing costs
- Slim styling options and design flexibility
- Life of vehicle light source
- Low LED to LED flux ratio ensures brightness uniformity.

Features:

- Drive circuitry and connector pins included
- Compact package
- Rugged, reliable assembly
- Meets SAE, ECE, JIS Stop/Tail specifications
- LED to LED flux ratio is less than 2:1 for each assembly.

Circuit Schematic



Selection Guide

Part Number	Description	LED Color	Voltage (V)	Mode	Color Dominant Wavelength λ_d (nm) ^[1,2]		Operational Forward Voltage VF (Volts)		Total Flux (lm)		Power Consumption (W)	
					min	max	min	max	min	max	min	max
HPWG-N510	Six SnapLED-150 Assembly	Red-Orange	12.8	Stop	611	629	9	16	39.5	81.3	2.8	3.5
				Tail	611	629	9	16	3.7	7.8	0.19	0.23
			13.5	Stop	611	629	9	16	41.8	86.1	3.3	4.1
				Tail	611	629	9	16	4.1	8.6	0.22	0.25

1. The dominant wavelength is derived from the CIE Chromaticity Diagram and represents the perceived color of the device.

2. The dominant wavelength does not vary between emitters by more than 8nm within the same assembly.

Absolute Maximum Ratings at $T_A = 25^\circ\text{C}$

Parameter	Rating
DC Input Operating Voltage ^[1]	16V
Power Dissipation (Stop)	3.5W@12.8V
Power Dissipation (Stop)	4.1W@13.5V
Reverse Voltage (Stop & Tail)	500V @ $I_R = 200\mu_A$
Operating Temperature Range (12.8V-13.5V)	-40°C to +85°C
Storage Temperature Range	-55°C to +100°C
LED Junction Temperature	125°C

Note 1: 16V operation is allowed at $T_{\text{ambient}} = 25^\circ\text{C}$ only.

For complete product information, please refer to datasheet DS10.



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SnapLED Six LED Multifunction Signal Assembly PB10 20121217

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