

American Opto Plus LED L945NPWC-70D

✤ HIGH LUMINOUS INTENSITY

- ✤ NON-PHOSPHOR WHITE
- ✤ 4 LEADED HIGH POWER
- ✤ HIGH CURRENT OPERATION

HIGH POWER LED LAMP - WATER CLEAR

Feature

- High Luminous Intensity
- High Current Operation
- Low Profile
- Packaged in Tubes for Use with Automatic Pick and Place Equipment
- Meets JIS, SAE, ECE Automotive Color Requirements

Applications

- Commercial Outdoor Sign Board
- Automotive Exterior Light
- Traffic Signal Light

Description

- These High Intensity LEDS are Based on InGaN/Sapphire
 Material Technology
- Water Transparent Lens

Packing

- Components will be conditioned in tubes of 60 parts exactly
- Tubes will be put in layers of 11 tubes each. One layer will contain only one CATEGORY / CLASS couple
- Layers will be conditioned in cardboard boxes, 10 layers each

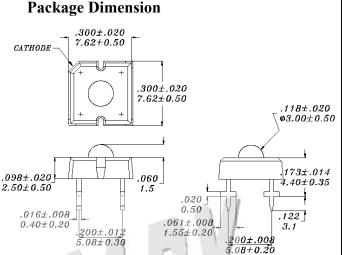
ABSOLUTE MAXIMUM RATINGS (Ta=25°C) Symbol Max Rating Unit Parameter PD 120 **Power Dissipation** mW Pulse Forward Current (Duty = 0.1, 1KHz) I_{PF} 100 mΑ Forward Current 30 I_{F} mΑ V_{R} **Reverse Voltage** 5.0 V **Operating Temperature Range** -40 ~ +80 °C TOPR °C Storage Temperature Range -40 ~ +100 Tstg Lead Soldering Temperature [1.6mm (0.063inch) from body]: 260°C for 5 seconds

OPTICAL-ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Test Condition	Min	Тур	Max	Unit
Luminous Intensity	Ιv	I _F = 20mA	770	1500		mcd
Forward Voltage	VF	I _F = 20mA		3.5	4.0	V
Reverse Current	I _R	V _R = 5V			10	uA
Viewing Angle	201/2	I _F = 20mA		70		deg.
Chromaticity Coordinates	х	I _F = 20mA		0.31		
	Y			0.32		

Version 1.1 – Aug 2005 [PRELIMINARY]

By: SP1



Tolerance = \pm 0.01inch / 0.25mm



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ELECTRICAL CHARACTERISTICS

(Ta=25°C)

Symbol	Iv		VF		Color	
Parameter	Lumino	us Intensity	Forward Voltage			
Condition	_F =	: 20mA	I _F = 20mA		I⊧= 20mA	
Unit	mcd		V		Color Range	
Binning	Grade	Range	Grade	Range	Grade	
	Bin 1	770 - 1080	Q0	2.5 - 3.0	W1	
	Bin 2	1080 - 1500	Q1	3.0 - 3.5	W2	
	Bin 3	1500 - 2100	Q2	3.5 - 4.0	W3	
					W4	
					W5	
			-		W6	
		107.1			W7	
					W8	
	-			1 1	W9	
					W10	
Intensity: Tolerance of n VF: Tolerance of minimu Color coordinates: Unce	im and max ertainty = ±	kimum = ± 0.05 0.01	v			
Notes: Static electricity a	and surge o	damages the LI	ED. It is rec	ommended to	use an anti-static wrist ba	
or anti-electrostatic alov	e when hai	ndling LEDs. Al	l devices, e	equipment and	machinery must be prope	

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CHROMATICITY COORDINATES BINNING

