

REV	DESCRIPTION	BY	DATE	APPROVED
R00	Released	KRO	2-3-04	DH

Description

Linear chip-on-board (COB) assembly containing 4 (1" pitch), 8 (0.5" pitch), or 16 (0.25" pitch) green die sites. The 4"(l) x 1/4" (w) boards are 1/32" thick FR-406 with a special white coating to maximize light extraction. These linear strips are for applications requiring linear distributed light with a broad radiation pattern.



Flux Characteristics


T_A = 25 °C

TYPE	PRODUCT CODE	LUMINOUS FLUX (Φ _v , lm)	FORWARD CURRENT (I _F , mA)
16 Site (Green)	NLN525016F00S00	24	80 mA (20 mA / die)
8 Site (Green)	NLN525008F00S00	12	80 mA (20 mA / die)
4 Site (Green)	NLN525004F00S00	6	80 mA (20 mA / die)

Electro- Optical

T_A = 25 °C, I_F = 80mA

TYPE	LUMINOUS FLUX (Φ _v , lm)		FORWARD VOLTAGE (V _F , V)		DOMINANT WAVELENGTH (λ _D , nm)			CHROMATICITY COORDINATES	
	MIN	TYP	TYP	MAX	MIN	TYP	MAX	x	y
16 Site	12	24	12.8	15.6	520	530	540	0.161	0.705
8 Site	6	12	6.4	7.8					
4 Site	3	6	3.2	3.9					

	NORLUX CORPORATION 575 RANDY ROAD CAROL STREAM, IL 60188-2121	CREATED BY: DMH	SAP #: Multiple	
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		CHECKED BY: KRO	DRAWING NO. N0900-0044	REV. R00
		APPROVED BY: DH		
TITLE: Green Linear Strip (4" x 1/4")				


Absolute Maximum Ratings¹

T_A = 25°C

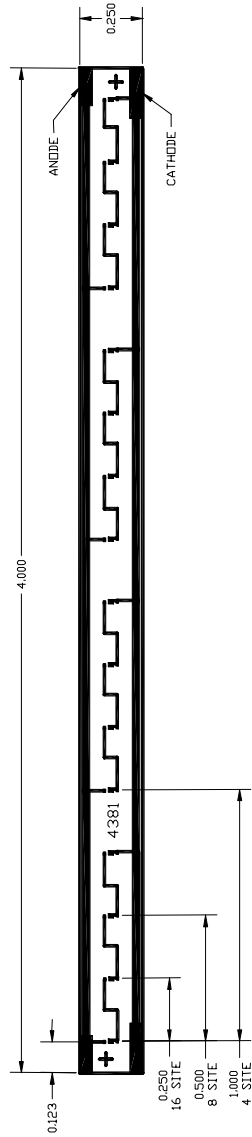
Forward Current	120 mA (30 mA / die)
Reverse Voltage (I _R = 100 μA)	> 5 V
Power (Heat Sink Required)	16 Site 1.87 W 8 Site 0.94 W 4 Site 0.47 W
Junction Temperature	110 °C
Operating Ambient Temperature	0 °C to 100 °C
Relative Humidity	90% Non Condensing
Storage Temperature	0 °C to 100 °C
Soldering Temperature	≤ 245 °C for 5 seconds


Note(s):

- The device can operate at maximum ratings only for instantaneous or low duty cycle pulsed excitation. Operation of the device must be de-rated for ambient temperature to avoid loss of light output and to prevent damage to the die. Use of a heat sink is highly recommended for continuous duty above typical current ratings and/or ambient temperature above 30°C. De-rate by 3.2mA/°C from maximum current rating.

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Mechanical Detail



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