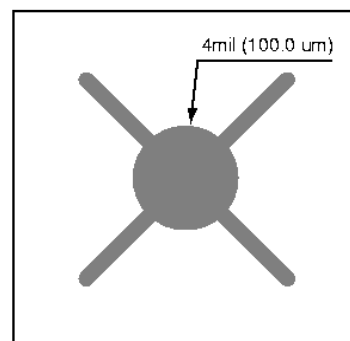


POWERBR(ite)TM Technology

UNPRX626-X0X

HIGH PERFORMANCE RED LED DIE

Maximum Ratings @ T_A = 25° C



ESD Class (Mil Std 883)

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Typical Electro-Optical Characteristics @ 25° C, 20 mA DC

Part Code	Luminous Intensity I _v , mcd		Forward Voltage V _f , V	Reverse Current I _r @ 5V, uA	Peak Wavelength λ _p nm	Dominant Wavelength λ _d nm			Spectral Width (FWHM) Δλ nm	Series Resistance R _s
	Min	Typ	Typ	Max	Typ	Min	Typ	Max	Typ	Typ
UNPRC626F02	130	150	1.9	10.0	633	616	6 26	636	18	7
UNPRB626C00	100	110	1.9	10.0	633	616	6 26	640	18	7
UNPRA626A00	70	90	1.9	10.0	633	616	6 26	640	18	7

Mechanical Specifications

Die Size	300um x 300um +/- 15um. (0.012" X 0.012" ±0.0015")		
Die Thickness	300um +/-25um (0.012 ±0.001)	Bond Pad	100um diameter
Contact Metal (P)	Au		
Backside Metal (N)	Au		

Options

- 100% Tested or Sample Tested, Sorted or Unsorted, Contact Factory for details on our test/sort capability.
- Die mounted on 200 mm Plastic Tape Or Grip Ring, Contact Factory for other available options.

Notes:

1. The optical power is determined by measuring die mounted on TO-46 headers inside an integrating sphere. An index matching encapsulant is not used to enhance this measurement.
2. The dominate wavelength is calculated from the 1931 2° CIE Chromaticity Diagram.
3. A tolerance of ± 15% on brightness level, and ± 2 nm on chromaticity, due to measuring variations applies.
4. Maximum ratings are package dependent. The above ratings were determined using a T-1 ¼ Pkg for characterization . Ratings for other packages may differ. The forward currents are not limited by the die but by the effect of the package on the junction temperature of the LED.
5. All die products conform to the listed specifications when packaged and operated within the maximum limits shown above. Typical values are provided for information only but are within the range of average values of acceptable sample sizes.

UNIROYAL Optoelectronics 3401 Cragmont Drive, Tampa, Florida 33619 U.S.A.

www.uniroyalopto.com ♦ (813) 630-9100 ♦ (800) 634-8491 ♦ sales@uniroyalopto.com