

Product Change Notice

Issue Date: 22-JANUARY-2024**Change Description:**

New IR die replacement for IR Polyled HLMP-Q900 and HLMP-Q900-000xx

Parts Affected:

HLMP-Q900

HLMP-Q900-00011

HLMP-Q900-00031

Description and Extent of Change:

Introduce new die source for above part numbers.

Reasons for Change:

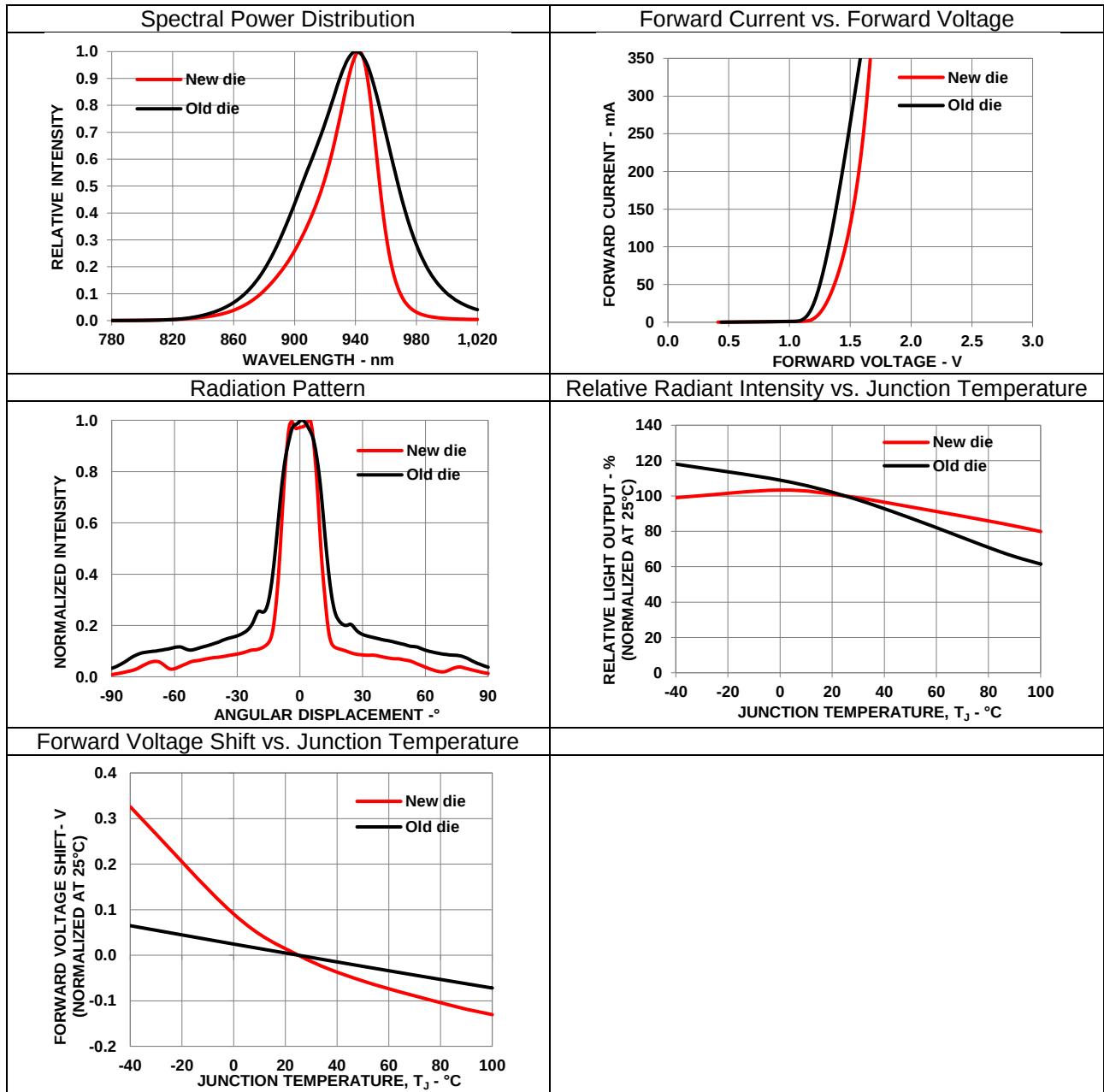
Product performance improvement.

Effect of Change on Fit, Form, Function, Quality, or Reliability:

There is no change in the product fit, form, quality and reliability but there is a change in function.

Following are the changes in product characteristics.

Parameter	Existing Die			New Die			Test Conditions
	Min	Typ	Max	Min	Typ	Max	
Radiant Intensity (mW/sr)	15	35	60	35	95	150	$I_F = 100\text{mA}$, $t_p = 20\text{ms}$
Radiant Flux (mW)		27			46		$I_F = 100\text{mA}$, $t_p = 20\text{ms}$
Viewing Angle (°)		24			20		$I_F = 100\text{mA}$
Temperature Coefficient of Radiant Intensity (%/K)		-0.89			-0.76		$I_F = 1\text{mA}$
		-0.51			-0.27		$I_F = 100\text{mA}$
Spectral Line Half Width (nm)		64			38		$I_F = 100\text{mA}$, $t_p = 20\text{ms}$
Junction Capacitance (pF)		45			27		$V_R = 0\text{V}$, $f = 1\text{MHz}$
Forward Voltage (V)	1.15	1.35	1.70	1.30	1.50	1.90	$I_F = 100\text{mA}$
Temperature Coefficient of Forward Voltage (mV/K)		-1.82			-1.64		$I_F = 1\text{mA}$
		-0.96			-1.74		$I_F = 100\text{mA}$



Effective Date of Change:

Parts with above change will commence on 23 Apr'24. There will be no mixed die in the shipment.

Qualification Data:

Product and qualification data will be available upon request.

Please contact your Broadcom field sales engineer or Contact Center for any questions or support requirements. Please acknowledge the receipt of the notice within 30 days of delivery. Lack of acknowledgement within 30 days constitutes acceptance of the change per JEDEC J-STD-046.