

Date: September 28, 2016

Objective: CBT-120-G Product Change / Improvement / Vf Reduction

Dear Valued Luminus Customer:

This notification includes important changes affecting the part numbers(s) listed below. Luminus has determined that your company has purchased the identified part number within the past 18 months.

As part of Luminus ongoing efforts of product and process improvement, we are lowering the allowable datasheet minimum specification for forward voltage of all variations of the CBT-120-G product from 3.8V (CBT-120 Datasheet Rev05) to 3.6V (CBT-120 Datasheet Rev06) at the stated (18A continuous) test condition. The datasheet maximum allowable Vf, and all other allowable shipping parameters will remain unchanged.

We believe, for most applications, this will have little to no negative impact with potential for some positive impact in the form of reduced system power and/or thermal load.

This change in the allowable minimum shippable Vf level will be effective on shipments starting November 1, 2016.

The affected products are listed below:

AFFECTED PART NUMBERS
CBT-120-G-C11-[*]-[*]

The summary of the change that is incorporated into Rev06 of the datasheet is highlighted below:

**Reference Optical & Electrical Characteristics**

( $T_{\text{heatsink}} = 40^{\circ}\text{C}$ )<sup>1</sup>

Green					
Drive Condition <sup>2</sup>		4.2 A Continuous	18 A Continuous	30 A Pulsed 50% D.F. <sup>3</sup>	
Parameter	Symbol	Values <sup>4</sup>			Unit
Current Density	j	0.35	1.5	2.5	A/mm <sup>2</sup>
Forward Voltage	V <sub>Fmin</sub>		3.8 → 3.6V		V
	V <sub>f</sub>	3.5	4.3	4.9	V
	V <sub>Fmax</sub>		4.9		V
Luminous Flux <sup>5</sup>	Φ <sub>v,typ</sub>	800	2100	3100	lm
Radiometric Flux	Φ <sub>R</sub>	1.6	4.1	6.3	W
Luminous Efficacy	η	55	28	21	lm/W
Dominant Wavelength <sup>6</sup>	λ <sub>d</sub>	535	528	521	nm
Peak Wavelength	λ <sub>p</sub>	530	524	521	nm
Color Saturation	-	0.91	0.83	0.79	-
FWHM	Δλ <sub>1/2</sub>	35	39	40	nm
Chromaticity Coordinates <sup>7,8</sup>	x	0.205	0.175	0.161	-
	y	0.740	0.730	0.722	-

Please contact your local sales representative or Luminus Customer Service ([cs@luminus.com](mailto:cs@luminus.com)) if you have questions regarding this product notification.