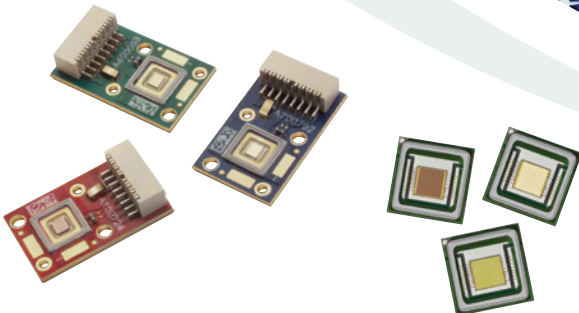


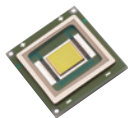


**LUMINUS**  
LEADER IN BIG CHIP LED<sup>SM</sup>

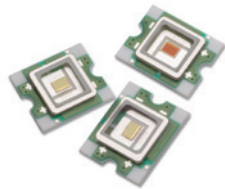


**LED Solutions Engineered for Bright Projection Displays**

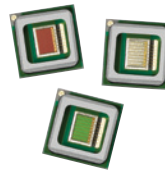
## LED Projection & Digital Display Products



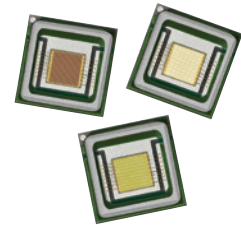
**SBT-90**



**SBT-16**



**Compact  
SBT-16**



**SBT-39**

### Overview

Luminus' projection LEDs have been engineered to deliver very high brightness for Projection Displays and to ultimately replace mercury discharge lamps with an environmentally friendly, solid-state light source.

Capable of a median lifetime in excess of 60,000 hours, Big Chip LEDs practically eliminate the need for lamp replacement while enabling maintenance-free systems with instant start capability and increased color gamut. They are compatible with all micro-display technologies including DLP™, 3LCD and LCoS.

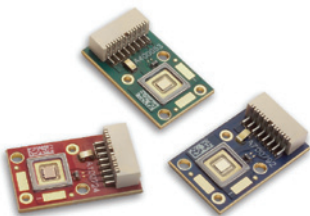
With millions of units sold to date, Big Chip LEDs have enabled lamp-free projection in a wide spectrum of systems and applications, from pico-projectors to mainstream business/education projectors. Luminus projection LEDs offer low cost of ownership, high availability and consistent color and picture quality. As a result, they are increasingly being adopted in front and rear projection applications such as video walls for control rooms, simulation projectors and creative digital signage solutions.

### Features

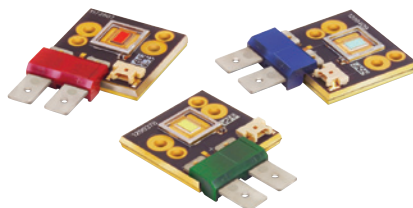
- Extremely high optical output
- High thermal conductivity package
- Lumen maintenance greater than 70% after 60,000 hours
- Patented & exclusive Photonic Lattice technology for high efficiency and uniform emission
- Mercury-free, RoHS compliant environmentally-friendly technology

### Applications

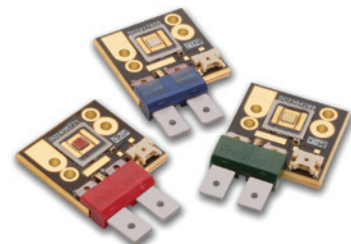
- Personal Projectors
- Ultra-Mobile Projectors
- Business & Education Projectors
- Video Walls
- Digital Signage
- Simulation & Video Projectors
- Heads-Up Displays
- Head-mounted displays



**PT-39, PT-54**



**PT-120**



**PT-121**

## Projection & Digital Display Product Summary

Product	Package size (mm <sup>2</sup> )	LED Emitter (mm <sup>2</sup> )	Personal Ultra Mobile	Business Education	Professional Video Wall Simulation Dig. Signage	Color	Dominant Wavelength (nm)	Peak Drive Current (A)	Typical Forward Voltage (V)	Typical Peak Flux (lm)	Typical Optical Power (W)
<b>PT-121</b>	28.0 x 26.75	12 (4.0 x 3.0)		✓	✓	Red-Amber	611-620	30	2.6	2000	8.1
						Red	619-630	30	2.6	1750	9.8
						Green	516-535	30	4.9	4400	9
						Blue	450-468	30	4.0	750	17
<b>PT-120</b>	28.0 x 26.75	12 (4.6 x 2.6)		✓	✓	Red-Amber	611-620	30	2.6	2000	8.1
						Red	619-630	30	2.6	1750	9.8
						Green	516-535	30	4.9	4400	9
						Blue	450-468	30	4.0	750	17
<b>PT-54</b>	26.5 x 16.0	5.4 (2.7 x 2.0)	✓	✓	✓	Red-Amber	611-620	13.5	2.6	1000	4.1
						Red	619-630	13.5	2.6	750	4.3
						Green	516-535	13.5	4.9	2050	4.4
						Blue	450-468	13.5	4.0	375	9.0
<b>PT-39</b>	26.5 x 16.0	3.9 (2.1 x 1.9)	✓	✓		Red-Amber	611-620	9.8	2.6	800	3.1
						Red	619-630	9.8	2.6	600	3.4
						Green	516-535	9.8	4.9	1450	2.8
						Blue	450-468	9.8	4.0	230	5.4
<b>SBT-39</b>	5.75 x 5.75	3.9 (2.1 x 1.9)	✓			Red	611-620	5.9	2.3	540	2.1
						Green	516-535	5.9	4.6	1125	2.7
						Blue	450-468	5.9	3.7	175	3.7
<b>Compact SBT-16</b>	4.5 x 4.5	1.6 (1.6 x 1.0)	✓			Red	611-620	4.0	2.4	305	1.3
						Green	516-535	4.0	4.9	615	1.0
						Blue	450-468	4.0	3.9	110	2.0

Product summary sheet is for information purposes only and is not a specification. For complete product specifications and ordering information, please contact Luminus Devices salesperson or your distributor.



**LUMINUS**  
LEADER IN BIG CHIP LEDS™



## Where to Buy

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### North America:

Luminus Devices, Inc.  
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www.luminus.com

### Europe, Middle East, Africa:

EBV Elektronik GmbH & Co.KG  
Tel: +49 8121.774 0  
generallighting@ebv.com  
www.ebv.com

### Japan:

Marubun Corporation  
Tel: +81-3-3639-9872  
smiyazak@marubun.co.jp  
www.marubun.co.jp

### Taiwan, China & Hong Kong :

Jetronic  
Tel: +852.2763.6806  
steven\_ng@jetronic.com  
www.jetronic.com

### Korea:

Luminus Devices, Inc.  
rhung@luminus.com  
sales@luminus.com  
www.luminus.com

### Worldwide (On-line catalog):

Mouser Electronics, Inc.  
Tel: +1 800.346.6873  
Sales@mouser.com  
www.mouser.com