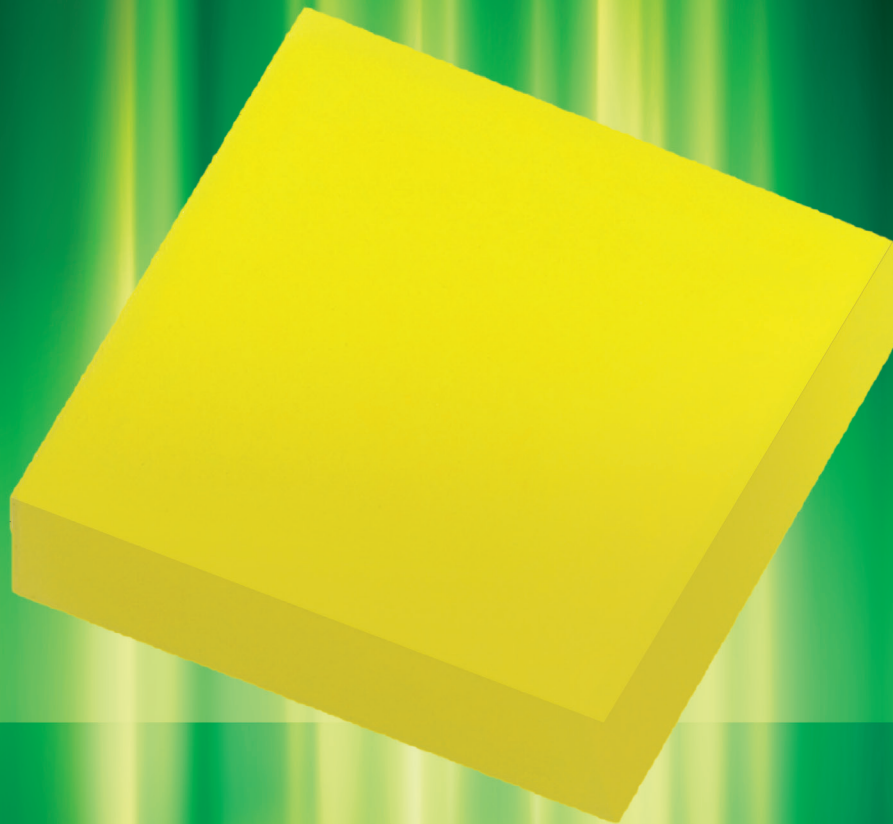


WICOP

The world's first true package-less LEDs



SEOUL SEMICONDUCTOR

www.seoulsemicon.com

World's First Package-free LED for General Lighting

WICOP: Wafer Integrated Chip-On-PCB

Excellent cost savings with high lumen density and design flexibility

	Y11*	Y15	Y19	Y22	Y50
Part Number	SZ8-Y11-WX-CX-A	SZ8-Y15-WX-CX	SZ8-Y19-WX-CX	SZ8-Y22-WX-CX	SZ8-Y50-XX-XX
Size	1.14 x 1.14mm	1.41 x 1.41mm	1.81 x 1.81mm	2.21 x 2.21mm	5.0 x 5.0mm
Binning Condition	150mA, T _j =85°C	350mA, T _j =85°C	700mA, T _j =85°C	700mA, T _j =85°C	700mA, T _j = 85°C
Typical Forward Voltage	2.87V	2.84V	2.88V	2.78V	11.3V
Efficacy (4000K)	150lm/W (CRI 80)	145lm/W (CRI 80)	153lm/W (CRI 70)	168lm/W (CRI 70)	158lm/W (CRI 70)
Flux (lm) typ	70lm (150mA, 85°C)	142lm (350mA, 85°C)	306lm (700mA, 85°C)	327lm (700mA, 85°C)	1250lm (700mA, 85°C)
T_j max	145°C	145°C	145°C	145°C	145°C
Max. Forward Current	0.7A	1.2A	2.0A	2.0A	1.5A
Min. CRI 90	Available	Available	Available	Available	Coming soon
Viewing angle	150°	140°	140°	140°	125°
LM80	✓	✓	✓	✓	✓
MacAdam binning	Available	Available	Available	Available	Available
ESD Sensitivity (HBM)	Class 2	Class 2	Class 2	Class 2	Class 2

*also available as 9V solution

Key Features and Benefits

- High Performance
- High Lumen Density
- Outstanding Reliability
- Most Advanced LED Technology
- Low Thermal Resistance
- P-Versions With 3535 Footprint
- Best Color over Angle (COA)

Key Applications

- Outdoor Area - Streetlight
- High Bay
- Flood Light
- Stadium Lights
- Industrial
- Commercial Lighting

LED Package Evolution – from Conventional Package to WICOP

