

High Power LEDs



SEOUL SEMICONDUCTOR

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The Next Generation of High Power LEDs

State of the Art - Highly Reliable

	Z5M2	Y15	Y19	Y22	Y50	MJT 5050
Part Number	SZ5-M2-WX-XX	SZ8-Y15-WX-CX	SZ8-Y19-WX-CX	SZ8-Y22-WX-CX	SZ8-Y50-XX-XX	SAW0L60A
Size (mm)	3.5 x 3.5	1.41 x 1.41	1.81 x 1.81	2.21 x 2.21	5.0 x 5.0	5.0 x 5.0
Binning Condition	700mA, T _j = 85°C	350mA, T _j = 85°C	700mA, T _j = 85°C	700mA, T _j = 85°C	700mA, T _j = 85°C	60mA, T _j = 25°C
Typical Forward Voltage	2.88V	2.8V	2.88V	2.78V	11.3V	16.5V
Efficacy (4000K)	145lm/W (CRI 70)	145lm/W (CRI 80)	153lm/W (CRI 70)	168lm/W (CRI 70)	158lm/W (CRI 70)	195lm/W (CRI 70)
Flux (lm) typical	292lm (700mA, 85°C)	142lm (350mA, 85°C)	306lm (700mA, 85°C)	327lm (700mA, 85°C)	1250lm (700mA, 85°C)	194lm (60mA, 25°C)
T_j max	150°C	145°C	145°C	145°C	145°C	125°C
Max. Forward Current	1.5A	1.2A	2.0A	2.0A	1.5A	0.32A
Min. CRI 90	Available	Available	Available	Coming soon	Coming soon	Coming soon
Viewing angle	118°	140°	140°	140°	125°	120°
LM80	✓	✓	✓	✓	✓	✓
MacAdam Binning	Available	Available	Available	Available	Available	Available
ESD Sensitivity (HBM)	Class 3A	Class 2	Class 2	Class 2	Class 2	Class 2

Features and Benefits

- High Performance
- High Lumen Density
- High Current Operation
- Outstanding Reliability
- Most Advanced LED Technology
- Low Thermal Resistance
- Best Color Over Angle (COA)
- Z5M2 & P-Versions With 3535 Footprint
- Highest lumens/\$ with MJT 5050

Key Applications

- Outdoor Area - Streetlight
- High Bay
- Flood Light
- Industrial
- Commercial Lighting
- Stadium Light
- Portable Lighting & Flashlights
- Lamps

