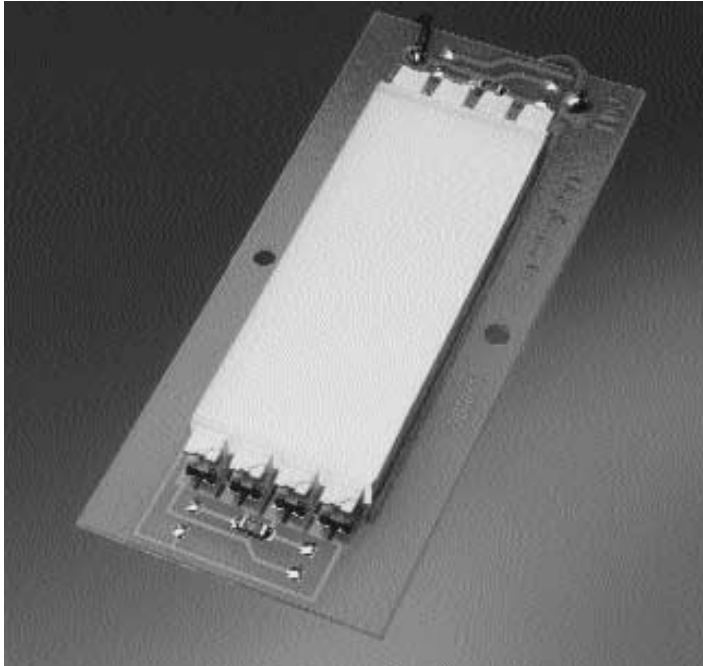


# MARKERlight

## LED Rectangular Modules



- Long life: Up to 100,000 hours
- OSRAM Hyper SIDELED® allows high luminous flux
- Entire module consists of 8, 12 or 16 LEDs
- Flat design — suitable for installation where space is limited
- Minimal heat generation
- Available in various colors: amber (red), yellow, true green, blue and white.

**OSRAM's NEW MARKERlights are ultra low profile LED modules — only 6mm.**

Light Emitting Diodes (LEDs) offer substantially better energy consumption than traditional incandescent lamps. These modules can be used wherever temperature or space limitations prevent the use of conventional means of illumination.

Marker lights are renowned for their uniform luminance over their entire surface area and give off little heat, which makes them ideal for applications in which space is at a premium.

### Product Availability

Product	Color
Marker Light (55 x 22; 82 x 33; 110 x 44)	Amber/Red
	Yellow
	True Green
	Blue
	White

### Ordering and Specification Information

Item Number	Ordering Abbreviation	Watts	Volts	Current (Amps)	Color	Number LEDs	Typical Wave Length	Luminous Intensity (mcd)
70019	ML/55X22/615/OS/ML01A/A	0.4	10 <sub>dc</sub>	0.4	Amber/Red	8	615	430-490
70020	ML/55X22/587/OS/ML01A/Y	0.4	10 <sub>dc</sub>	0.4	Yellow	8	587	380-440
70021	ML/55X22/525/OS/ML01A/T	0.8	10 <sub>dc</sub>	0.8	True Green	8	525	250-500
70022	ML/55X22/470/OS/ML01A/B	0.8	10 <sub>dc</sub>	0.8	Blue	8	470	80-120
70023	ML/55X22/OS/ML01A/W	0.8	10 <sub>dc</sub>	0.8	White	8	X = 0,32; y=0,31	390-400
70024	ML/82X33/615/OS/ML01B/A	0.6	10 <sub>dc</sub>	0.6	Amber/Red	12	615	345-405
70025	ML/82X33/587/OS/ML01B/Y	0.6	10 <sub>dc</sub>	0.6	Yellow	12	587	320-370
70026	ML/82X33/525/OS/ML01B/T	1.2	10 <sub>dc</sub>	1.2	True Green	12	525	350-410
70027	ML/82X33/470/OS/ML01B/B	1.2	10 <sub>dc</sub>	1.2	Blue	12	470	70-90
70028	ML/82X33/OS/ML01B/W	1.2	10 <sub>dc</sub>	1.2	White	12	X = 0,32; y=0,31	300-360
70029	ML/110X44/615/OS/ML01C/A	0.8	10 <sub>dc</sub>	0.8	Amber/Red	16	615	270-320
70030	ML/110X44/587/OS/ML01C/Y	0.8	10 <sub>dc</sub>	0.8	Yellow	16	587	250-300
70031	ML/110X44/525/OS/ML01C/T	1.6	10 <sub>dc</sub>	1.6	True Green	16	525	280-330
70032	ML/110X44/470/OS/ML01C/B	1.6	10 <sub>dc</sub>	1.6	Blue	16	470	60-80
70033	ML/110X44/OS/ML01C/W	1.6	10 <sub>dc</sub>	1.6	White	16	X = 0,32; y=0,31	230-280

### Application Information

#### Applications

- Road or path marking
- Seat marking (e.g. Theater)
- Step marking (e.g. on a wall, in steps)
- Numbers and/or letters
- Ambience lighting inside furniture (e.g. cupboards, shelves)
- Design light effects (e.g. furniture, table, bed, ambient light)
- General light

#### Application Notes

1. Small dimensions
2. Shock resistance
3. High color efficiency
4. No IR/UV radiation
5. Power supplies for operation (contact us for availability)

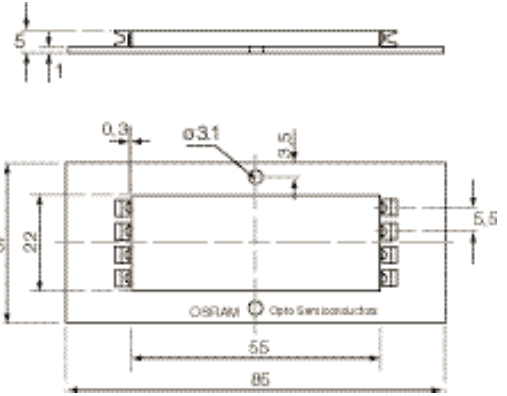
## Maximum Ratings

Parameter	Symbol	Values	Units
Operating Temperature	$T_{op}$	-30... +65	C
Storage Temperature Range	$T_{stg}$	-30... +65	C
Maximum Voltage	$V_{max}$	10.5	$V_{dc}$
Reverse Voltage	$V_R$	10.5	$V_{dc}$

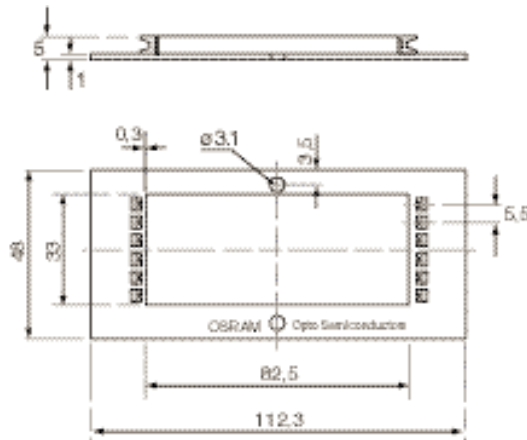
## Dimensions

	Length mm (in)	Width mm (in)	Height mm (in)
<b>Marker Light 55 x 22</b>			
Entire PCB	85 (3.35)	37 (1.46)	5 (0.20)
LED Grid	55 (2.16)	22 (0.87)	1 (0.04)
<b>Marker Light 82 x 33</b>			
Entire PCB	112.5 (4.45)	48 (1.89)	5 (0.20)
LED Grid	82.5 (3.25)	33 (1.30)	1 (0.04)
<b>Marker Light 110 x 44</b>			
Entire PCB	140 (5.51)	59 (2.32)	5 (0.20)
LED Grid	110 (4.33)	44 (1.73)	1 (0.04)

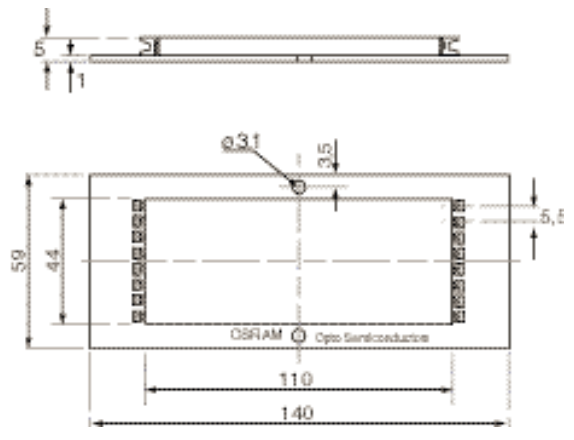
\*Dimensions on diagrams in mm.



Marker Light 55 x 22



Marker Light 82 x 33



Marker Light 110 x 44

OSRAM SYLVANIA  
National Customer  
Support Center  
18725 N. Union Street  
Westfield, IN 46074

### Industrial & Commercial

Phone: 1-800-255-5042  
Fax: 1-800-255-5043

### National Accounts

Phone: 1-800-562-4671  
Fax: 1-800-562-4674

### OEM & Special Markets

Phone: 1-800-762-7191  
Fax: 1-800-762-7192

### Photo-Optic

Phone: 1-888-677-2627  
Fax: 1-800-762-7192

In Canada  
OSRAM SYLVANIA LTD.  
Headquarters  
2001 Drew Road  
Mississauga, ON L5S 1S4

### Industrial & Commercial

Phone: 1-800-263-2852  
Fax: 1-800-667-6772

### Special Markets

Phone: 1-800-265-2852  
Fax: 1-800-667-6772

## Ordering Guide

<b>ML</b>	/	<b>55x22</b>	/	<b>470</b>	/	<b>OS</b>	/	<b>ML01A</b>	/	<b>B</b>
Marker Light		LXW		Wavelength 470nm		Opto Semiconductor		ID No.		Color Code B = Blue