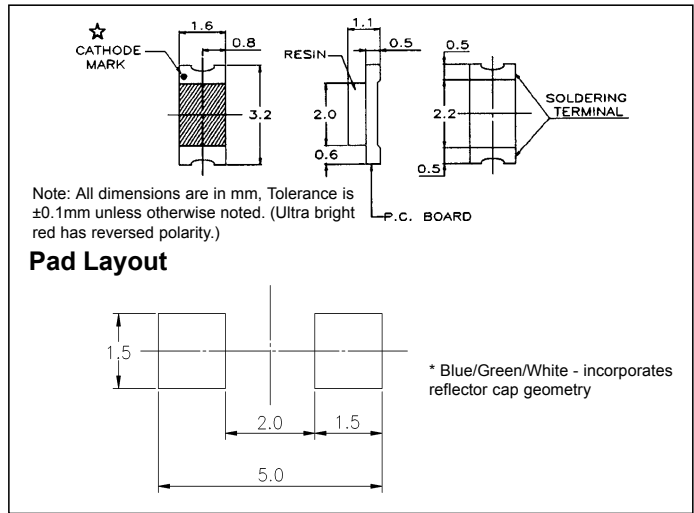


Surface Mount LED Lamps

FEATURES

- Industry standard footprint
- Compatible with automatic placement equipment
- Compatible with infrared and vapor phase reflow solder processes
- Long life solid state reliability
- IC Compatible
- JEDEC Precondition Stress Tested
- Also Available in Water Clear Package



MAXIMUM RATINGS (Ta = 25°C)

| PART NO. | FORWARD CURRENT- (I_f) (mA) | REVERSE VOLTAGE (V_R) (V) | POWER DISSIPATION (P_D) (mW) | OPERATING TEMPERATURE (T_{opr}) (°C) | STORAGE TEMPERATURE (T_{stg}) (°C) |
|----------------|------------------------------------|----------------------------------|-------------------------------------|---|---|
| MTSM5100LA-G | 30 | 5 | 70 | -30~+85 | -30~+100 |
| MTSM5100L-UY | 30 | 4 | 85 | -30~+85 | -30~+100 |
| MTSM5100LA-UA | 30 | 4 | 85 | -30~+85 | -30~+100 |
| MTSM5100LA-UO | 30 | 4 | 85 | -30~+85 | -30~+100 |
| MTSM5100LA-UR | 30 | 4 | 70 | -30~+85 | -30~+100 |
| MTSM5100L-UG | 30 | 4 | 85 | -30~+85 | -30~+100 |
| MTSM5100LB-UR | 30 | 4 | 85 | -30~+85 | -30~+100 |
| MTSM5100LA-UBL | 30 | 5 | 70 | -30~+85 | -30~+100 |
| MTSM5100LA-UV | 30 | 5 | 70 | -30~+85 | -30~+100 |
| MTSM5100LA-WT | 30 | 5 | 70 | -30~+85 | -30~+100 |



OPTO-ELECTRICAL CHARACTERISTICS (Ta = 25°C)

| PART NO. | MATERIAL | EMITTING COLOR | LENS COLOR | VIEWING ANGLE typ. | LUMINOUS INTENSITY (mcd) | | | FORWARD VOLTAGE (V) | | | REVERSE CURRENT | | PEAK WAVE LENGTH nm | Static Sensitive |
|----------------|----------|----------------|-------------|--------------------|--------------------------|------|-----|---------------------|------|-----|-----------------|-------|---------------------|------------------|
| | | | | | min. | typ. | @mA | typ. | max. | @mA | μA | V_r | | |
| MTSM5100LA-G | GaP | Green | White Diff. | 170° | 5 | 10 | 20 | 2.2 | 2.6 | 20 | 100 | 5 | 570 | — |
| MTSM5100L-UY | InGaAlP | UR Yellow | White Diff. | 170° | 25 | 45 | 20 | 2.1 | 2.8 | 20 | 100 | 4 | 589 | — |
| MTSM5100LA-UA | InGaAlP | UR Amber | White Diff. | 170° | 25 | 45 | 20 | 2.1 | 2.8 | 20 | 100 | 4 | 610 | — |
| MTSM5100LA-UO | InGaAlP | UR Orange | White Diff. | 170° | 25 | 45 | 20 | 2.1 | 2.8 | 20 | 100 | 4 | 636 | — |
| MTSM5100LA-UR | AlGaAs | SB Red | White Diff. | 170° | 9 | 17 | 20 | 1.8 | 2.2 | 20 | 100 | 4 | 660 | — |
| MTSM5100L-UG | InGaAlP | UR Green | White Diff. | 170° | 15 | 30 | 20 | 2.2 | 2.8 | 20 | 100 | 4 | 570 | — |
| MTSM5100LB-UR | InGaAlP | UR Red | White Diff. | 170° | 20 | 35 | 20 | 2.1 | 2.8 | 20 | 100 | 4 | 640 | — |
| MTSM5100LA-UBL | InGaN | UR Blue | Water Clear | 120° | — | 35 | 20 | 3.5 | 4.2 | 20 | 100 | 5 | 468 | |
| MTSM5100LA-UV | GaN | Blue | Water Clear | 120° | — | 12 | 20 | 4.0 | 4.7 | 20 | 100 | 5 | 430 | |
| MTSM5100LA-WT | InGaN | White | Water Clear | 120° | — | 30 | 20 | 4.0 | 4.7 | 20 | 100 | 5 | — | |



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For up-to-date product info visit our web site at www.marktechopto.com

All specifications subject to change.