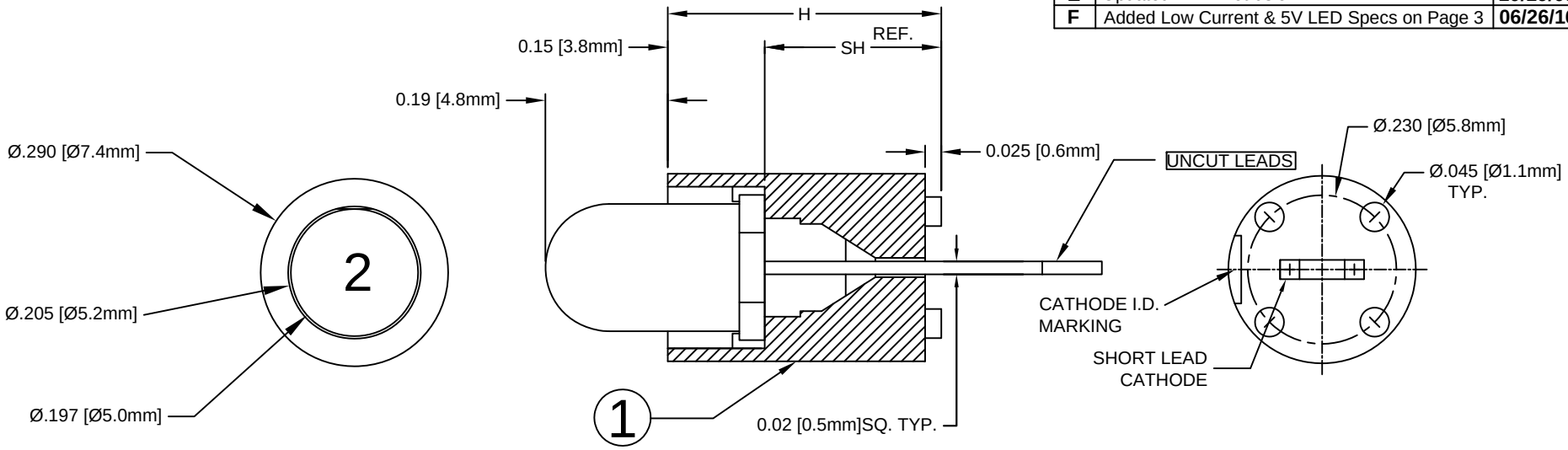
| ITEM | Q'TY | PART NUMBER | PART DESCRIPTION |
|---|---|---|---|
| 1 | 1 | SLM-XXX | Molded Self-Retaining LED Mount |
| 2 | 1 | 5XX-F | T1 ¾ (5mm) Flanged LED, See Page 2 & 3 |

| REV. | DESCRIPTION | DATE | APPROVED |
|---|---|---|---|
| B | Updated Uncut Leads | 06/06/08 | M. C. |
| C | Updated Uncut Leads Note | 12/24/08 | T. Y. |
| D | Updated P/N's on Page 2 | 09/16/09 | T. Y. |
| E | Updated LED Protrusion | 10/19/09 | T. Y. |
| F | Added Low Current & 5V LED Specs on Page 3 | 06/26/16 | J. C. |




| PART NO. | SH ( Ref.) | H |
|---|---|---|
| SLM-140 | .140 (3.6mm) | .285 (7.1mm) |
| SLM-150 | .150 (3.8mm) | .295 (7.2mm) |
| SLM-160 | .160 (4.1mm) | .305 (7.7mm) |
| SLM-170 | .170 (4.3mm) | .315 (8.0mm) |
| SLM-180 | .180 (4.6mm) | .325 (8.3mm) |
| SLM-190 | .190 (4.8mm) | .335 (8.5mm) |
| SLM-200 | .200 (5.1mm) | .345 (8.8mm) |
| SLM-210 | .210 (5.3mm) | .355 (9.0mm) |
| SLM-220 | .220 (5.6mm) | .365 (9.3mm) |
| SLM-230 | .230 (5.8mm) | .375 (9.5mm) |
| SLM-240 | .240 (6.1mm) | .385 (9.8mm) |
| SLM-250 | .250 (6.4mm) | .395 (10.0mm) |
| SLM-260 | .260 (6.6mm) | .405 (10.3mm) |
| SLM-270 | .270 (6.9mm) | .415 (10.5mm) |

| PART NO. | SH ( Ref.) | H |
|---|---|---|
| SLM-280 | .280 (7.1mm) | .425 (10.8mm) |
| SLM-290 | .290 (7.4mm) | .435 (11.0mm) |
| SLM-300 | .300 (7.6mm) | .445 (11.3mm) |
| SLM-310 | .310 (7.9mm) | .455 (11.6mm) |
| SLM-320 | .320 (8.1mm) | .465 (11.8mm) |
| SLM-330 | .330 (8.4mm) | .475 (12.1mm) |
| SLM-340 | .340 (8.6mm) | .485 (12.3mm) |
| SLM-350 | .350 (8.9mm) | .495 (12.6mm) |
| SLM-360 | .360 (9.1mm) | .505 (12.8mm) |
| SLM-370 | .370 (9.4mm) | .515 (13.1mm) |
| SLM-380 | .380 (9.7mm) | .525 (13.3mm) |
| SLM-390 | .390 (9.9mm) | .535 (13.6mm) |
| SLM-400 | .400 (10.2mm) | .545 (13.8mm) |
| SLM-410 | .410 (10.4mm) | .555 (14.1mm) |

| PART NO. | SH ( Ref.) | H |
|---|---|---|
| SLM-420 | .420 (10.7mm) | .565 (14.3mm) |
| SLM-430 | .430 (10.9mm) | .575 (14.6mm) |
| SLM-440 | .440 (11.2mm) | .585 (14.9mm) |
| SLM-450 | .450 (11.4mm) | .595 (15.1mm) |
| SLM-470 | .470 (11.9mm) | .615 (15.6mm) |
| SLM-490 | .490 (12.4mm) | .635 (16.1mm) |
| SLM-510 | .510 (13.0mm) | .655 (16.6mm) |
| SLM-530 | .530 (13.5mm) | .675 (17.1mm) |
| SLM-550 | .550 (13.8mm) | .695 (17.5mm) |
| SLM-570 | .570 (14.5mm) | .715 (18.2mm) |
| SLM-590 | .590 (15.0mm) | .735 (18.6mm) |
| SLM-610 | .610 (15.5mm) | .755 (19.2mm) |
| SLM-630 | .630 (16.0mm) | .775 (19.7mm) |
| SLM-650 | .650 (16.5mm) | .795 (20.2mm) |

| PART NO. | SH ( Ref.) | H |
|---|---|---|
| SLM-670 | .670 (17.0mm) | .815 (20.7mm) |
| SLM-690 | .690 (17.5mm) | .835 (21.2mm) |
| SLM-710 | .710 (18.0mm) | .855 (21.7mm) |
| SLM-730 | .730 (18.5mm) | .875 (22.2mm) |
| SLM-750 | .750 (19.1mm) | .895 (22.7mm) |
| SLM-770 | .770 (19.6mm) | .915 (23.2mm) |
| SLM-790 | .790 (20.1mm) | .935 (23.7mm) |
| SLM-810 | .810 (20.6mm) | .955 (24.3mm) |
| SLM-830 | .830 (21.1mm) | .975 (24.8mm) |
| SLM-850 | .850 (21.6mm) | .995 (25.3mm) |
| SLM-870 | .870 (22.1mm) | 1.015 (25.8mm) |
| SLM-890 | .890 (22.6mm) | 1.035 (26.3mm) |

# ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

| | |
|---|---|
| REVERSE VOLTAGE | 5V |
| REVERSE CURRENT ( VR=5V) | 100µA |
| OPERATING TEMPERATURE RANGE | -25°C ~ 85°C |
| STORAGE TEMPERATURE | -30°C ~ 100°C |
| LEAD SOLDERING TEMPERATURE (1/16" FROM BODY) | 260°C for 5 Seconds |

STANDARD TOLERANCE
( UNLESS OTHERWISE SPECIFIED )

| DECIMALS | | ANGULAR | |
|---|---|---|---|
| .X | ± .1 | X° | ± 1° |
| .XX | ± .02 | | |
| .XXX | ± .010 | | |


BIVAR®
4 THOMAS, IRVINE, CA. 92618
TEL: (949) 951-8808 FAX: (949) 951-3974


TITLE: MOLDED, SELF-RETAINING T-1 3/4 (5mm) LED MOUNT ASSEMBLY

| DESIGNED: | DATE: | PART NO: | REVISION: |
|---|---|---|---|
| D. Beckman | 06/14/07 | SLMXXX5XXX | F |
| CHECKED: T. Yin | DATE: 06/14/07 | CAGE CODE : 32559 | SHEET # 1 OF 3 |

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| REV. | DESCRIPTION | DATE | APPROVED |
|---|---|---|---|
| | SEE SHEET #1 | | |
| | | | |

| Assy Part No. | Chip | | | Lens Appearance | Electro-Optical Data | | | Viewing Angle 2 Θ ½ (Deg) | LED Part No. |
|---|---|---|---|---|---|---|---|---|---|
| | Material | Peak Wave Length λp(nm) | Emitted Color | | Vf (V) | | Iv (mcd) | | |
| | | | | | TYP | MAX | TYP | | |
| **STANDARD** | | | | | **Data @ 20mA** | | | | |
| SLMXXX5BWC | GaN/SiC | 430 | BLUE | WATER CLEAR | 4.0 | 4.5 | 30 | 25 | 5BWC-F |
| SLMXXX5BWD | GaN/SiC | 430 | BLUE | DIFFUSED | 4.0 | 4.5 | 15 | 40 | 5BWD-F |
| SLMXXX5BWT | GaN/SiC | 430 | BLUE | TINTED | 4.0 | 4.5 | 30 | 25 | 5BWT-F |
| SLMXXX5PGC | GaP/GaP | 555 | PURE GREEN | WATER CLEAR | 2.2 | 2.8 | 10 | 35 | 5PGC-F |
| SLMXXX5PGD | GaP/GaP | 555 | PURE GREEN | DIFFUSED | 2.2 | 2.8 | 10 | 40 | 5PGD-F |
| SLMXXX5PGT | GaP/GaP | 555 | PURE GREEN | TINTED | 2.2 | 2.8 | 10 | 35 | 5PGT-F |
| SLMXXX5GC | GaP/GaP | 568 | GREEN | WATER CLEAR | 2.1 | 2.8 | 40 | 35 | 5GC-F |
| SLMXXX5GD | GaP/GaP | 568 | GREEN | DIFFUSED | 2.1 | 2.8 | 25 | 40 | 5GD-F |
| SLMXXX5GT | GaP/GaP | 568 | GREEN | TINTED | 2.1 | 2.8 | 40 | 35 | 5GT-F |
| SLMXXX5YC | GaAsP/GaP | 590 | YELLOW | WATER CLEAR | 2.0 | 2.8 | 40 | 35 | 5YC-F |
| SLMXXX5YD | GaAsP/GaP | 590 | YELLOW | DIFFUSED | 2.0 | 2.8 | 25 | 40 | 5YD-F |
| SLMXXX5YT | GaAsP/GaP | 590 | YELLOW | TINTED | 2.0 | 2.8 | 40 | 35 | 5YT-F |
| SLMXXX5HC | GaAsP/GaP | 625 | HE RED | WATER CLEAR | 2.0 | 2.8 | 50 | 35 | 5HC-F |
| SLMXXX5HD | GaAsP/GaP | 625 | HE RED | DIFFUSED | 2.0 | 2.8 | 40 | 40 | 5HD-F |
| SLMXXX5HT | GaAsP/GaP | 625 | HE RED | TINTED | 2.0 | 2.8 | 50 | 35 | 5HT-F |
| SLMXXX5RC | GaP/GaP | 700 | RED | WATER CLEAR | 2.1 | 2.8 | 2 | 35 | 5RC-F |
| SLMXXX5RD | GaP/GaP | 700 | RED | DIFFUSED | 2.1 | 2.8 | 1.5 | 40 | 5RD-F |
| SLMXXX5RT | GaP/GaP | 700 | RED | TINTED | 2.1 | 2.8 | 2 | 35 | 5RT-F |

STANDARD TOLERANCE
( UNLESS OTHERWISE SPECIFIED )
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| DESIGNED: | DATE: | PART NO: | REVISION: |
|---|---|---|---|
| D. Beckman | 06/14/07 | SLMXXX5XXX | F |
| CHECKED: T. Yin | DATE: 06/14/07 | CAGE CODE : 32559 | SHEET # 2 OF 3 |

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| REV. | DESCRIPTION | DATE | APPROVED |
|---|---|---|---|
| | SEE SHEET #1 | | |
| | | | |

| Assy Part No. | Chip | | | Lens Appearance | Electro-Optical Data | | | Viewing Angle 2 θ ½ (Deg) | LED Part No. |
|---|---|---|---|---|---|---|---|---|---|
| | Material | Peak Wave Length λp(nm) | Emitted Color | | Vf (V) | | Iv (mcd) | | |
| | | | | | TYP | MAX | TYP | | |
| **LOW CURRENT** | | | | | **Data @ 2mA** | | | | |
| SLMXXX5BWDL | GaN/SiC | 430 | BLUE | DIFFUSED | 3.8 | 4.2 | 4 | 40 | 5BWDL-F |
| SLMXXX5GDL | GaP/GaP | 568 | GREEN | DIFFUSED | 2.1 | 2.6 | 4 | 40 | 5GDL-F |
| SLMXXX5YDL | GaAsP/GaP | 590 | YELLOW | DIFFUSED | 2.0 | 2.6 | 4 | 40 | 5YDL-F |
| SLMXXX5ADL | GaAsP/GaP | 605 | AMBER | DIFFUSED | 2.0 | 2.6 | 4 | 40 | 5ADL-F |
| SLMXXX5HDL | GaAsP/GaP | 625 | HE RED | DIFFUSED | 2.0 | 2.6 | 5 | 40 | 5HDL-F |
| SLMXXX5SRDL | GaAlAs/GaAs | 645 | RED | DIFFUSED | 1.7 | 2.3 | 6 | 40 | 5SRDL-F |

| Assy Part No. | Chip | | | Lens Appearance | Electro-Optical Data | | | Viewing Angle 2 θ ½ (Deg) | LED Part No. |
|---|---|---|---|---|---|---|---|---|---|
| | Material | Peak Wave Length λp(nm) | Emitted Color | | Vf (V) | | Iv (mcd) | | |
| | | | | | TYP | MAX | TYP | | |
| **5 VOLT** | | | | | **Data @ 5V** | | | | |
| SLMXXX5BWD5V | GaN/SiC | 430 | BLUE | DIFFUSED | - | 5.0 | 15 | 40 | 5BWD5V-F |
| SLMXXX5GD5V | GaP/GaP | 568 | GREEN | DIFFUSED | - | 5.0 | 25 | 40 | 5GD5V-F |
| SLMXXX5YD5V | GaAsP/GaP | 590 | YELLOW | DIFFUSED | - | 5.0 | 25 | 40 | 5YD5V-F |
| SLMXXX5AD5V | GaAsP/GaP | 605 | AMBER | DIFFUSED | - | 5.0 | 25 | 40 | 5AD5V-F |
| SLMXXX5HD5V | GaAsP/GaP | 625 | HE RED | DIFFUSED | - | 5.0 | 30 | 40 | 5HD5V-F |
| SLMXXX5RD5V | GaP/GaP | 700 | RED | DIFFUSED | - | 5.0 | 1.5 | 40 | 5RD5V-F |

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| DESIGNED: | DATE: | PART NO: | REVISION: |
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| D. Beckman | 06/14/07 | SLMXXX5XXX | F |
| CHECKED: T. Yin | DATE: 06/14/07 | CAGE CODE : 32559 | SHEET # 3 OF 3 |

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