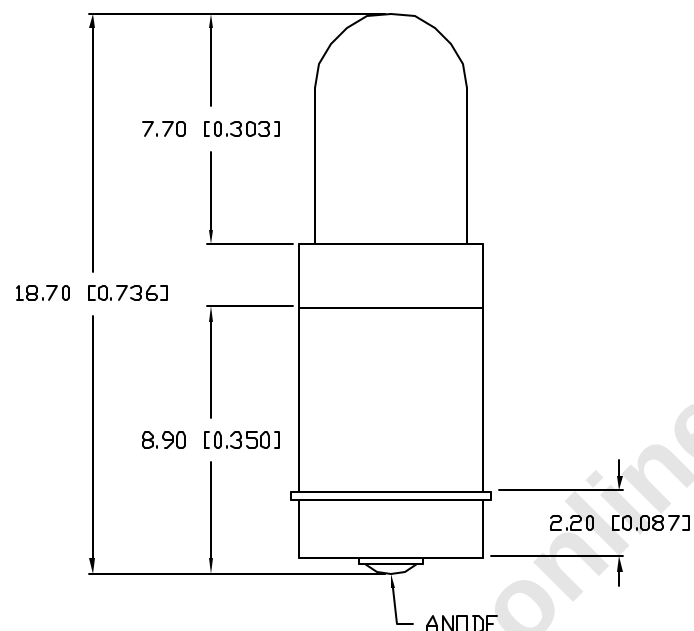
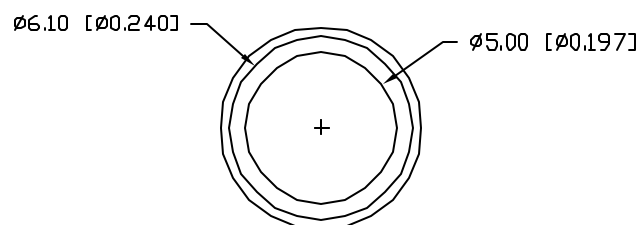
ELECTRO-OPTICAL CHARACTERISTICS  $T_A=25^\circ\text{C}$   $V_f=12\text{V}$ 

| PARAMETER          | MIN         | TYP  | MAX | UNITS    | TEST COND            |
|--------------------|-------------|------|-----|----------|----------------------|
| PEAK WAVELENGTH    |             | 590  |     | nm       |                      |
| FORWARD VOLTAGE    |             | 12   |     | $V_f$    |                      |
| REVERSE VOLTAGE    | 5.0         |      |     | $V_r$    | $I_f=100\mu\text{A}$ |
| AXIAL INTENSITY    |             | 1200 |     | mcd      | $V_f=12\text{V}$     |
| VIEWING ANGLE      |             | 45   |     | 2x theta |                      |
| EMITTED COLOR:     | YELLOW      |      |     |          |                      |
| EPOXY LENS FINISH: | WATER CLEAR |      |     |          |                      |

LIMITS OF SAFE OPERATION AT  $25^\circ\text{C}$ 

| PARAMETER                      | MAX        | UNITS                |
|--------------------------------|------------|----------------------|
| PEAK FORWARD VOLTAGE           | 14         | V                    |
| STEADY CURRENT                 | 30         | mA                   |
| POWER DISSIPATION              | 310        | mW                   |
| DERATE FROM $25^\circ\text{C}$ | -1.2       | mW/ $^\circ\text{C}$ |
| OPERATING, STORAGE TEMP.       | -40 TO +85 | $^\circ\text{C}$     |

\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), XX=±0.5 (±0.020), XXX=±0.25 (±0.010), XXXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN.=+DECIMAL PRECISION MAX.=+DECIMAL PRECISION

REV.

PART NUMBER

SSP-D19F9SYC-12V

5mm BULB LED LAMP WITH FLANGE BASE,  
590nm AlInGaP YELLOW LED.

## CONFIDENTIAL INFORMATION

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## RELIABILITY NOTE

OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.



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