

UNCONTROLLED DOCUMENT

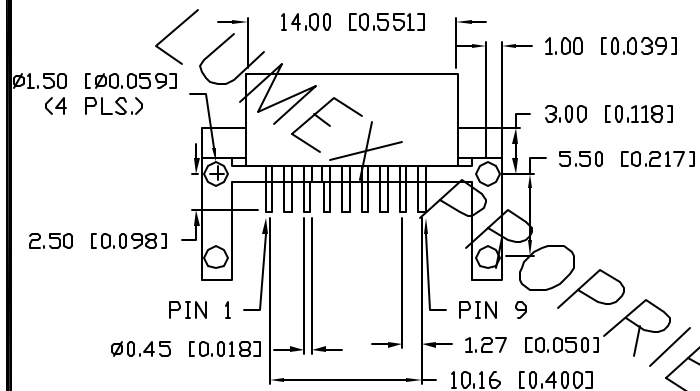
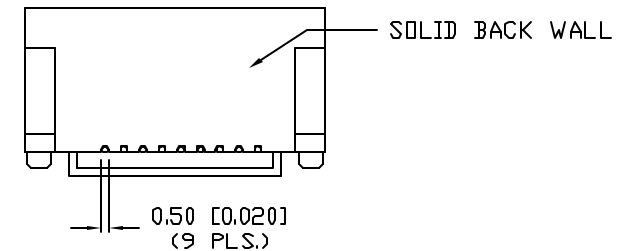
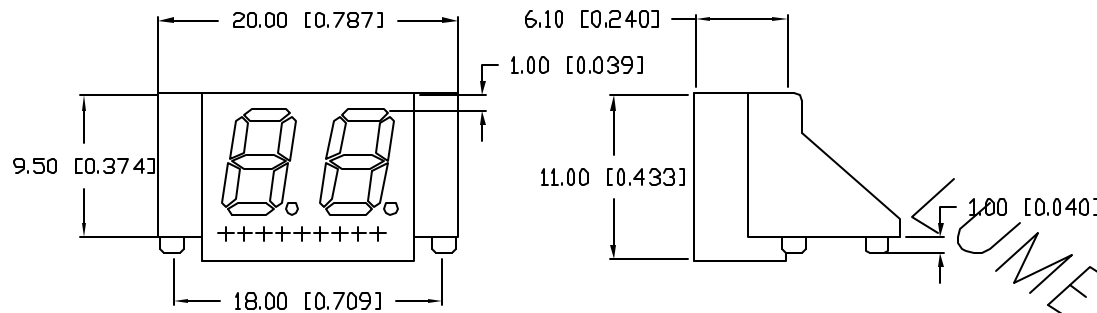
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PART NUMBER

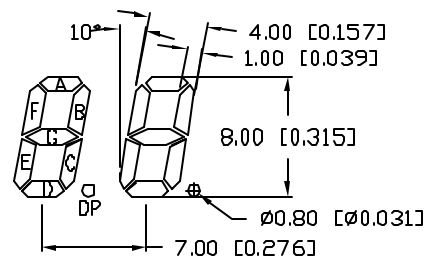
REV.

LDD-SMM3002RI-RA-1

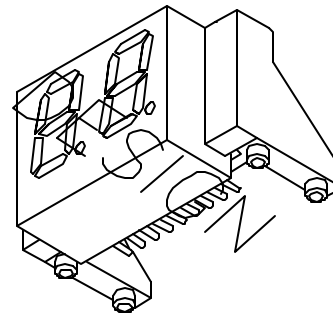
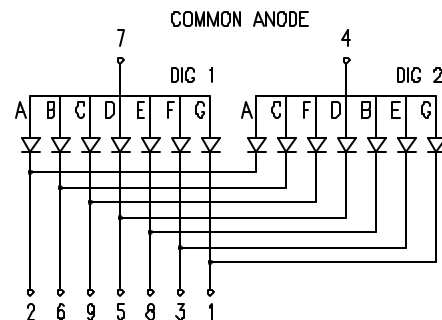
PRELIMINARY IN P/N DIR



DIGIT DETAIL

ELECTRO-OPTICAL CHARACTERISTICS  $T_A=25^\circ\text{C}$   $I_f=10\text{mA}$ 

| PARAMETER       | MIN                  | TYP  | MAX | UNITS          | TEST COND            |
|-----------------|----------------------|------|-----|----------------|----------------------|
| PEAK WAVELENGTH |                      | 565  |     | nm             |                      |
| FORWARD VOLTAGE |                      | 2.2  | 2.6 | $V_f$          |                      |
| REVERSE VOLTAGE | 5.0                  |      |     | $V_r$          | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY |                      | 2500 |     | $\mu\text{cd}$ | $I_f=10\text{mA}$    |
| EMITTED COLOR:  | GREEN                |      |     |                |                      |
| FACE COLOR:     | GRAY                 |      |     |                |                      |
| SEGMENT COLOR:  | MILKY WHITE DIFFUSED |      |     |                |                      |

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

| PARAMETER                      | MAX        | UNITS                |
|--------------------------------|------------|----------------------|
| PEAK FORWARD CURRENT*          | 150        | mA                   |
| STEADY CURRENT                 | 25         | mA                   |
| POWER DISSIPATION              | 105        | mW                   |
| DERATE FROM $25^\circ\text{C}$ | -1.6       | mW/ $^\circ\text{C}$ |
| OPERATING, STORAGE TEMP.       | -40 TO +85 | $^\circ\text{C}$     |
| SOLDERING TEMP.                | +260       | $^\circ\text{C}$     |
| 2.0mm FROM BODY                | 3 SEC. MAX |                      |

\*  $t < 10\mu\text{s}$ 

\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN=+0.00 DECIMAL PRECISION MAX=+0.00 DECIMAL PRECISION

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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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DATE: 4.14.05

JD

PAGE: 1 OF 1

SCALE: N/A

0.28" SEVEN SEGMENT, DUAL DIGIT, LED DISPLAY,  
565nm GREEN CHIPS, GRAY FACE WITH WHITE SEGMENTS,  
MULTIPLEXED, COMMON ANODE, RIGHT ANGLE.

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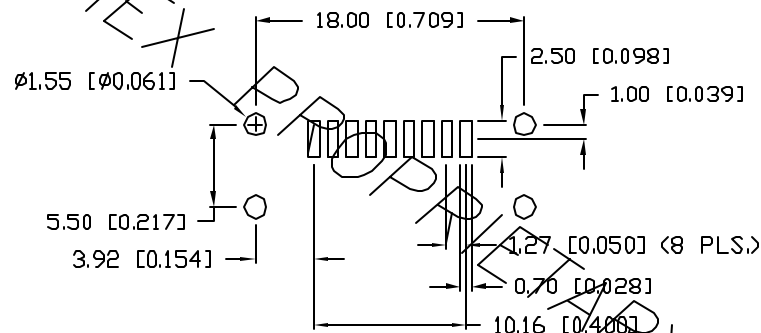
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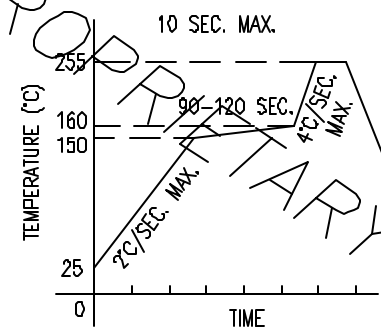
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## RECOMMENDED SOLDER PAD LAYOUT



## LEAD FREE REFLOW PROFILE



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

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