



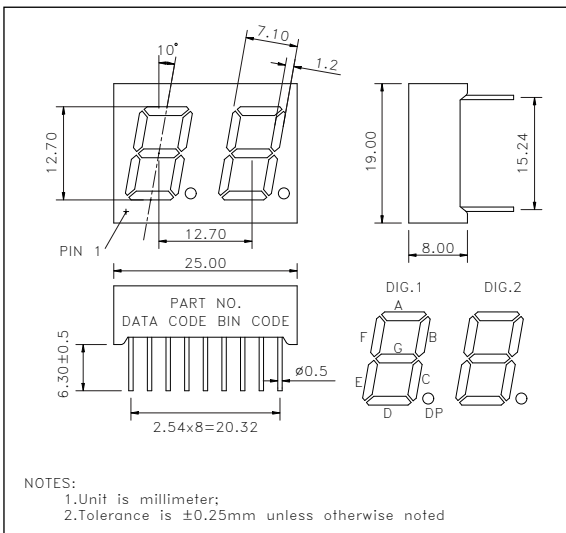
0.50" Dual Digit Numeric Single Color LED Display

0.50" (12.7mm) digit height

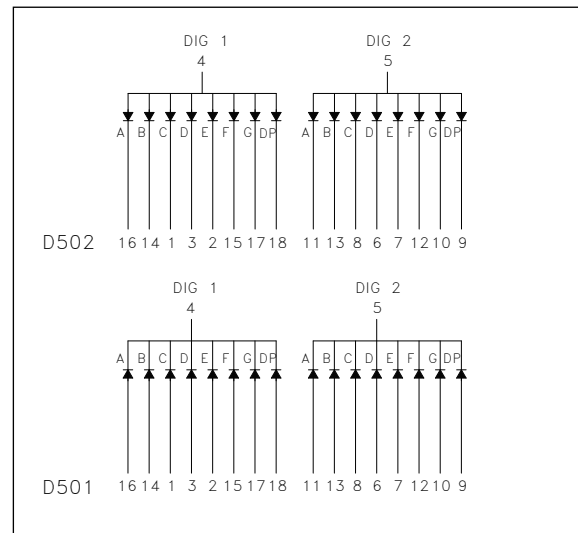
● ABSOLUTE MAXIMUM RATINGS : (T_a=25°C)

| PARAMETER | RED ORANGE | GREEN | YELLOW | SR RED | SUPER RED | SUPER GREEN | SUPER YELLOW | UNIT |
|--|-----------------|-------|--------|--------|-----------|-------------|--------------|-------|
| Power Dissipation Per Seg | 65 | 65 | 55 | 72 | 65 | 65 | 55 | mW |
| Peak Forward Current Per Seg (1/10 Duty Cycle, 0.1ms Pulse Width) | 100 | 100 | 80 | 125 | 100 | 100 | 100 | mA |
| Continuous Forward Current Per Seg | 25 | 25 | 20 | 30 | 25 | 25 | 25 | mA |
| Derating Linear From 25°C Per Seg | 0.33 | 0.33 | 0.25 | 0.42 | 0.33 | 0.33 | 0.33 | mA/°C |
| Reverse Voltage Per Seg | 5 | 5 | 5 | 5 | 5 | 5 | 5 | v |
| Operating Tem Range | -35°C to + 85°C | | | | | | | |
| Storage Tem Range | -35°C to + 85°C | | | | | | | |
| Solder Tem 1/16 inch Below Seating Plane at 260°C for 3 seconds | | | | | | | | |

● PACKAGE DIMENSIONS



● INTERNAL CIRCUIT DIAGRAM



● ELECTRICAL/OPTICAL CHARACTERISTICS

| PART NO. | COLOR | λ_p/λ_d (nm) | Half-Spectral Width($\Delta\lambda$) | Description | AVERAGE LUMINOUS INTENSITY | | | FORWARD VOLTAGE | |
|------------|--------------|----------------------------|--|-------------|----------------------------|-----------|----------|-----------------|----------|
| | | | | | Min.(mcd) | Typ.(mcd) | @ IF(mA) | Typ.(V) | @ IF(mA) |
| D5020E... | RED ORANGE | 632/622 | 35 | CA | 1.2 | 3.0 | 10 | 2.0 | 20 |
| D5010E... | | | | CC | | | | | |
| D5020G... | GREEN | 568/570 | 30 | CA | 1.6 | 4.0 | 10 | 2.1 | 20 |
| D5010G... | | | | CC | | | | | |
| D5020Y... | YELLOW | 589/590 | 35 | CA | 1.2 | 3.0 | 10 | 2.1 | 20 |
| D5010Y... | | | | CC | | | | | |
| D5020S... | SR RED | 660/643 | 20 | CA | 1.8 | 4.5 | 10 | 1.8 | 20 |
| D50010S... | | | | CC | | | | | |
| D5029Q... | SUPER RED | 656/640 | 20 | CA | 2.2 | 5.5 | 10 | 2.1 | 20 |
| D5019Q... | | | | CC | | | | | |
| D5020T... | SUPER GREEN | 573/571 | 15 | CA | 4.0 | 10.0 | 10 | 2.1 | 20 |
| D5010T... | | | | CC | | | | | |
| D5029C... | SUPER YELLOW | 591/589 | 15 | CA | 4.0 | 10.0 | 10 | 2.1 | 20 |
| D5019C... | | | | CC | | | | | |

Notes : The component is available in :

- Low Current
- InGaN/Sapphire blue & blue green & white light

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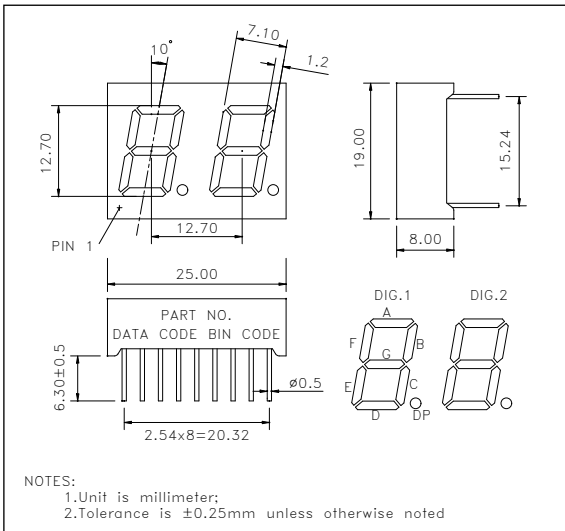


0.50" (12.7mm) digit height

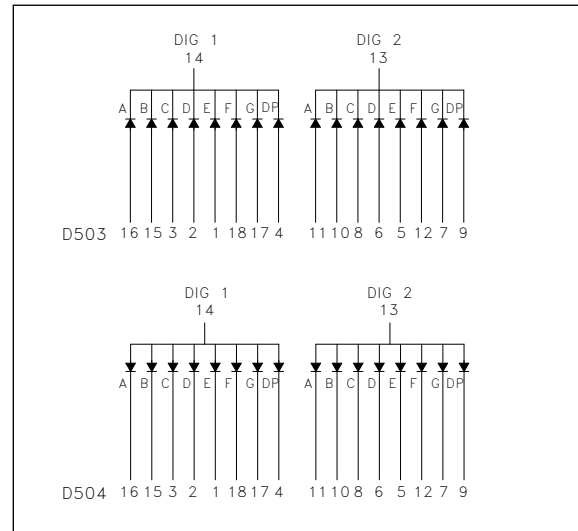
• ABSOLUTE MAXIMUM RATINGS : (Ta=25°C)

| PARAMETER | RED ORANGE | GREEN | YELLOW | SR RED | SUPER RED | SUPER GREEN | SUPER YELLOW | UNIT |
|---|-----------------|-------|--------|--------|-----------|-------------|--------------|------|
| Power Dissipation Per Seg | 65 | 65 | 55 | 72 | 65 | 65 | 55 | mW |
| Peak Forward Current Per Seg (1/10 Duty Cycle, 0.1ms Pulse Width) | 100 | 100 | 80 | 125 | 100 | 100 | 100 | mA |
| Continuous Forward Current Per Seg Derating Linear From 25°C Per Seg | 25 | 25 | 20 | 30 | 25 | 25 | 25 | mA |
| Reverse Voltage Per Seg | 5 | 5 | 5 | 5 | 5 | 5 | 5 | v |
| Operating Tem Range | -35°C to + 85°C | | | | | | | |
| Storage Tem Range | -35°C to + 85°C | | | | | | | |
| Solder Tem 1/16 inch Below Seating Plane at 260°C for 3 seconds | | | | | | | | |

• PACKAGE DIMENSIONS



• INTERNAL CIRCUIT DIAGRAM



• ELECTRICAL/OPTICAL CHARACTERISTICS

| PART NO. | COLOR | λ_p/λ_d (nm) | Half-Spectral Width($\Delta\lambda$) | Description | AVERAGE LUMINOUS INTENSITY | | | FORWARD VOLTAGE | |
|-----------|--------------|-------------------------------|--|-------------|----------------------------|-----------|----------|-----------------|----------|
| | | | | | Min.(mcd) | Typ.(mcd) | @ IF(mA) | Typ.(V) | @ IF(mA) |
| D5040E... | RED ORANGE | 632/622 | 35 | CA | 1.2 | 3.0 | 10 | 2.0 | 20 |
| D5030E... | | | | CC | | | | | |
| D5040G... | GREEN | 568/570 | 30 | CA | 1.6 | 4.0 | 10 | 2.1 | 20 |
| D5030G... | | | | CC | | | | | |
| D5040Y... | YELLOW | 589/590 | 35 | CA | 1.2 | 3.0 | 10 | 2.1 | 20 |
| D5030Y... | | | | CC | | | | | |
| D5040S... | SR RED | 660/643 | 20 | CA | 1.8 | 4.5 | 10 | 1.8 | 20 |
| D5030S... | | | | CC | | | | | |
| D5049Q... | SUPER RED | 656/640 | 20 | CA | 2.2 | 5.5 | 10 | 2.1 | 20 |
| D5039Q... | | | | CC | | | | | |
| D5040T... | SUPER GREEN | 573/571 | 15 | CA | 4.0 | 10.0 | 10 | 2.1 | 20 |
| D5030T... | | | | CC | | | | | |
| D5049C... | SUPER YELLOW | 591/589 | 15 | CA | 4.0 | 10.0 | 10 | 2.1 | 20 |
| D5039C... | | | | CC | | | | | |

Notes : The component is available in :

- Low Current
- InGaN/Sapphire blue & blue green & white light.



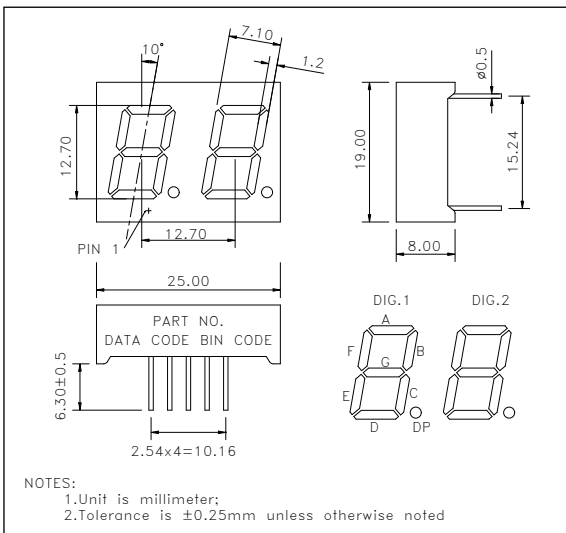
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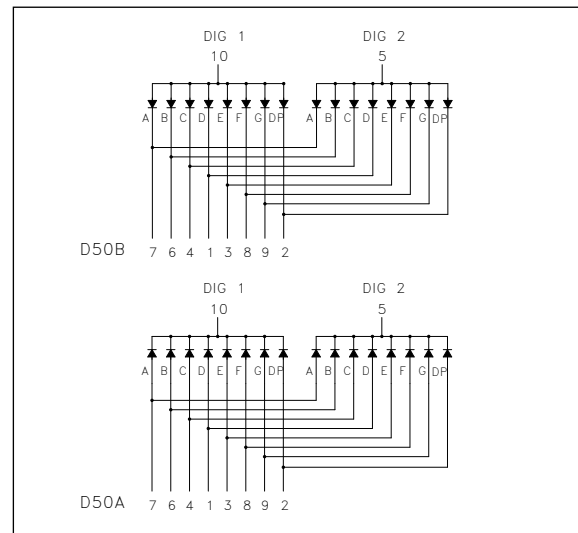
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| PARAMETER | RED ORANGE | GREEN | YELLOW | SR RED | SUPER RED | SUPER GREEN | SUPER YELLOW | UNIT |
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| Continuous Forward Current Per Seg Derating Linear From 25°C Per Seg | 25 | 25 | 20 | 30 | 25 | 25 | 25 | mA |
| Reverse Voltage Per Seg | 5 | 5 | 5 | 5 | 5 | 5 | 5 | v |
| Operating Tem Range | -35°C to + 85°C | | | | | | | |
| Storage Tem Range | -35°C to + 85°C | | | | | | | |
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● INTERNAL CIRCUIT DIAGRAM



● ELECTRICAL/OPTICAL CHARACTERISTICS

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|-----------|--------------|-------------------------------|--|-------------|----------------------------|-----------|----------|-----------------|----------|
| | | | | | Min.(mcd) | Typ.(mcd) | @ IF(mA) | Typ.(V) | @ IF(mA) |
| D50B0E... | RED ORANGE | 632/622 | 35 | CA | 1.2 | 3.0 | 10 | 2.0 | 20 |
| D50A0E... | | | | CC | | | | | |
| D50B0G... | GREEN | 568/570 | 30 | CA | 1.6 | 4.0 | 10 | 2.1 | 20 |
| D50A0G... | | | | CC | | | | | |
| D50B0Y... | YELLOW | 589/590 | 35 | CA | 1.2 | 3.0 | 10 | 2.1 | 20 |
| D50A0Y... | | | | CC | | | | | |
| D50B0S... | SR RED | 660/643 | 20 | CA | 1.8 | 4.5 | 10 | 1.8 | 20 |
| D50A0S... | | | | CC | | | | | |
| D50B9Q... | SUPER RED | 656/640 | 20 | CA | 2.2 | 5.5 | 10 | 2.1 | 20 |
| D50A9Q... | | | | CC | | | | | |
| D50B0T... | SUPER GREEN | 573/571 | 15 | CA | 4.0 | 10.0 | 10 | 2.1 | 20 |
| D50A0T... | | | | CC | | | | | |
| D50B9C... | SUPER YELLOW | 591/589 | 15 | CA | 4.0 | 10.0 | 10 | 2.1 | 20 |
| D50A9C... | | | | CC | | | | | |

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- InGaN/Sapphire blue & blue green & white light