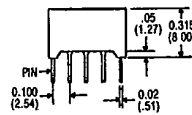
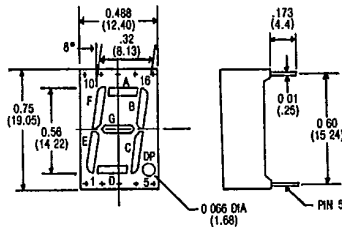


# SINGLE DIGIT SEVEN SEGMENT DISPLAY

## 0.56" DIGIT SIZE - R.H.D.P.

T-41-33

| PART NO.    | PEAK WAVE-LENGTH<br>λ P (nm) | EMITTED COLOR | MAXIMUM RATINGS        |                       |                        |                          |                          | OPTO-ELECTRICAL CHARACTERISTICS |      |      |                     |                  |                      |      | Pin Out |
|-------------|------------------------------|---------------|------------------------|-----------------------|------------------------|--------------------------|--------------------------|---------------------------------|------|------|---------------------|------------------|----------------------|------|---------|
|             |                              |               | I <sub>F</sub><br>(mA) | V <sub>R</sub><br>(V) | P <sub>D</sub><br>(mW) | T <sub>opr</sub><br>(°C) | T <sub>stg</sub><br>(°C) | V <sub>F</sub> (V)              |      |      | I <sub>R</sub> (μA) |                  | I <sub>V</sub> (μcd) |      |         |
|             |                              |               |                        |                       |                        |                          |                          | typ.                            | max. | @ mA | max.                | @ V <sub>R</sub> | typ. per seg.        | @ mA |         |
| MTN1156-ASR | 655                          | Red           | 25                     | 3                     | 100                    | -40 ~ 85                 | -55 ~ 100                | 1.7                             | 2.0  | 20   | 100                 | 3                | 500                  | 10   | 1       |
| MTN2156-AG  | 567                          | Green         | 25                     | 5                     | 85                     | -40 ~ 85                 | -55 ~ 100                | 2.1                             | 3.0  | 20   | 100                 | 5                | 1850                 | 10   | 1       |
| MTN4156-AO  | 635                          | Orange        | 25                     | 5                     | 85                     | -40 ~ 85                 | -55 ~ 100                | 2.1                             | 3.0  | 20   | 100                 | 5                | 2000                 | 10   | 1       |
| MTN4156-AHR | 635                          | Hi-Eff Red    | 25                     | 5                     | 85                     | -40 ~ 85                 | -55 ~ 100                | 2.1                             | 3.0  | 20   | 100                 | 5                | 2000                 | 10   | 1       |
| MTN1156-CSR | 655                          | Red           | 25                     | 3                     | 100                    | -40 ~ 85                 | -55 ~ 100                | 1.7                             | 2.0  | 20   | 100                 | 3                | 500                  | 10   | 2       |
| MTN2156-CG  | 567                          | Green         | 25                     | 5                     | 85                     | -40 ~ 85                 | -55 ~ 100                | 2.1                             | 3.0  | 20   | 100                 | 5                | 1850                 | 10   | 2       |
| MTN4156-CO  | 635                          | Orange        | 25                     | 5                     | 85                     | -40 ~ 85                 | -55 ~ 100                | 2.1                             | 3.0  | 20   | 100                 | 5                | 2000                 | 10   | 2       |
| MTN4156-CHR | 635                          | Hi-Eff Red    | 25                     | 5                     | 85                     | -40 ~ 85                 | -55 ~ 100                | 2.1                             | 3.0  | 20   | 100                 | 5                | 2000                 | 10   | 2       |



### PINOUT 1

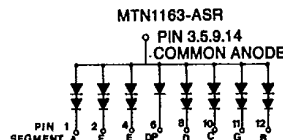
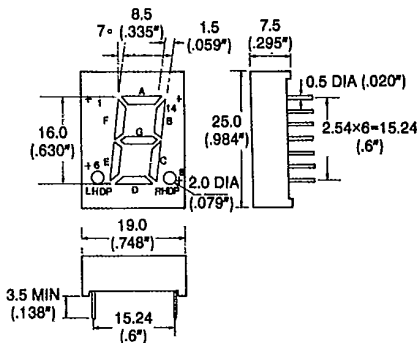
- PIN # FUNCTION
1. CATHODE E
  2. CATHODE D
  3. COMMON ANODE
  4. CATHODE C
  5. CATHODE DP
  6. CATHODE B
  7. CATHODE A
  8. COMMON ANODE
  9. CATHODE F
  10. CATHODE G

### PINOUT 2

- PIN # FUNCTION
1. ANODE E
  2. ANODE D
  3. COMMON CATHODE
  4. ANODE C
  5. ANODE DP
  6. ANODE B
  7. ANODE A
  8. COMMON CATHODE
  9. ANODE F
  10. ANODE G

## 0.63" DIGIT SIZE - L.H.D.P.

| PART NO.    | PEAK WAVE-LENGTH<br>λ P (nm) | EMITTED COLOR | MAXIMUM RATINGS     |                    |                     |                       |                       | OPTO-ELECTRICAL CHARACTERISTICS |      |      |                     |                  |                      |      | Pin Out |
|-------------|------------------------------|---------------|---------------------|--------------------|---------------------|-----------------------|-----------------------|---------------------------------|------|------|---------------------|------------------|----------------------|------|---------|
|             |                              |               | I <sub>F</sub> (mA) | V <sub>R</sub> (V) | P <sub>D</sub> (mW) | T <sub>opr</sub> (°C) | T <sub>stg</sub> (°C) | V <sub>F</sub> (V)              |      |      | I <sub>R</sub> (μA) |                  | I <sub>V</sub> (μcd) |      |         |
|             |                              |               |                     |                    |                     |                       |                       | typ.                            | max. | @ mA | max.                | @ V <sub>R</sub> | typ. per seg.        | @ mA |         |
| MTN1163-ASR | 655                          | Red           | 25                  | 6                  | 100                 | -40 ~ 85              | -55 ~ 100             | 3.4                             | 4.0  | 20   | 100                 | 6                | 750                  | 10   | 1       |
| MTN2163-AG  | 567                          | Green         | 25                  | 10                 | 85                  | -40 ~ 85              | -55 ~ 100             | 4.2                             | 6.0  | 20   | 100                 | 10               | 2800                 | 10   | 1       |
| MTN4163-AO  | 635                          | Orange        | 25                  | 10                 | 85                  | -40 ~ 85              | -55 ~ 100             | 4.2                             | 6.0  | 20   | 100                 | 10               | 3000                 | 10   | 1       |
| MTN4163-AHR | 635                          | Hi-Eff Red    | 25                  | 10                 | 85                  | -40 ~ 85              | -55 ~ 100             | 4.2                             | 6.0  | 20   | 100                 | 10               | 3000                 | 10   | 1       |
| MTN1163-CSR | 655                          | Red           | 25                  | 6                  | 100                 | -40 ~ 85              | -55 ~ 100             | 3.4                             | 4.0  | 20   | 100                 | 6                | 750                  | 10   | 2       |
| MTN2163-CG  | 567                          | Green         | 25                  | 10                 | 85                  | -40 ~ 85              | -55 ~ 100             | 4.2                             | 6.0  | 20   | 100                 | 10               | 2800                 | 10   | 2       |
| MTN4163-CO  | 635                          | Orange        | 25                  | 10                 | 85                  | -40 ~ 85              | -55 ~ 100             | 4.2                             | 6.0  | 20   | 100                 | 10               | 3000                 | 10   | 2       |
| MTN4163-CHR | 635                          | Hi-Eff Red    | 25                  | 10                 | 85                  | -40 ~ 85              | -55 ~ 100             | 4.2                             | 6.0  | 20   | 100                 | 10               | 3000                 | 10   | 2       |



### PINOUT 1

- PIN NO. FUNCTION
1. A CATHODE
  2. F CATHODE
  3. COMMON ANODE
  4. E CATHODE
  5. COMMON ANODE
  6. D CATHODE
  7. C CATHODE
  8. B CATHODE
  9. A CATHODE
  10. COMMON ANODE
  11. G CATHODE
  12. F CATHODE
  13. E CATHODE
  14. COMMON ANODE

### PINOUT 2

- PIN NO. FUNCTION
1. A ANODE
  2. F ANODE
  3. COMMON CATHODE
  4. E ANODE
  5. COMMON CATHODE
  6. D ANODE
  7. C ANODE
  8. B ANODE
  9. A ANODE
  10. COMMON CATHODE
  11. G ANODE
  12. F ANODE
  13. E ANODE
  14. COMMON CATHODE