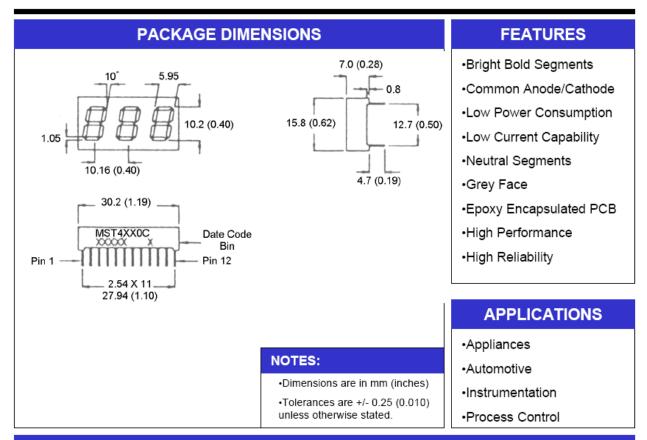




Bright Red MST4110C, MST4140C High Efficiency Red MST4910C, MST4940C Green MST4410C, MST4440C

TR/QTS/030100-001



MODELS AVAILABLE

| Part Number | Colour | Description |
|-------------|---------------------|-----------------------------------|
| MST4110C | Bright Red | Three Digit, RHDP, Common Anode |
| MST4140C | Bright Red | Three Digit, RHDP, Common Cathode |
| MST4410C | Green | Three Digit, RHDP, Common Anode |
| MST4440C | Green | Three Digit, RHDP, Common Cathode |
| MST4910C | High Efficiency Red | Three Digit, RHDP, Common Anode |
| MST4Y40C | High Efficiency Red | Three Digit, RHDP, Common Cathode |
| | | |
| | | |

(For other colour options, contact your local area Sales Manager)



| ABSOLUTE MAXIMUM RATINGS ⁽¹⁾ (T _A = 25°C, unless otherwise specified) | | | | | | | | | | |
|---|----------|----------|----------|-------|--|--|--|--|--|--|
| Part Number | MST4110C | MST4410C | MST4910C | | | | | | | |
| Parameter | MST4140C | MST4440C | MST4940C | Units | | | | | | |
| Continuous Forward Current | 15 | 25 | 25 | mA | | | | | | |
| (each segment) | | | | | | | | | | |
| Peak Forward Current | 60 | 90 | 90 | mA | | | | | | |
| (F = 10KHz, D/F = 1/10) | | | | | | | | | | |
| Power Dissipation (P _D) | 40 | 70 | 70 | mW | | | | | | |
| *Derate Linearly from 25°C | 0.17 | 0.33 | 0.33 | mW | | | | | | |
| Reverse Voltage per Die 5 Volts | | | | | | | | | | |
| Operating and Storage Temperature Range -40°C to +85°C | | | | | | | | | | |
| Lead soldering time (1/16 inch from standoffs) 5 seconds @ 230°C | | | | | | | | | | |

| ELECTRO-OPTICAL CHARACTERISTICS ⁽¹⁾ ($T_A = 25^{\circ}C$, unless otherwise specified) | | | | | | | | | |
|---|---------------|----------|----------|-------|------------------------|--|--|--|--|
| Part Number | MST4110C | MST4410C | MST4910C | | | | | | |
| Parameter | MST4140C | MST4440C | MST4940C | Units | Test Condition | | | | |
| Luminous intensity ⁽²⁾ (I _v) | | | | | | | | | |
| Minimum (Standard Current) | 320 | 850 | 800 | ucd | I _F = 20mA | | | | |
| Typical (Standard Current) | 800 | 2200 | 2200 | ucd | I _F = 20mA | | | | |
| Minimum (Low Current) | Not Ava | ilable | | | | | | | |
| Typical (Low Current) | Not Available | | | | | | | | |
| Forward Voltage (V _F) | | | | | | | | | |
| Typical (Standard Current) | 2.10 | 2.10 | 2.00 | Volts | I _F = 20mA | | | | |
| Maximum (Standard Current) | 2.60 | 2.80 | 2.80 | Volts | I _F = 20mA | | | | |
| Typical (Low Current) | Not Available | | | | | | | | |
| Maximum (Low Current) | Not Ava | ilable | | | | | | | |
| Peak Wavelength | 697 | 570 | 635 | nm | I _F = 20mA | | | | |
| Dominant Wavelength | Not Available | | | | | | | | |
| Spectral Line 1/2 Width | 90 | 30 | 45 | nm | I _F = 10mA | | | | |
| Reverse B ⁽³⁾ .Voltage (V _R) | 5 | 5 | 5 | Volts | I _R = 100uA | | | | |

NOTES:

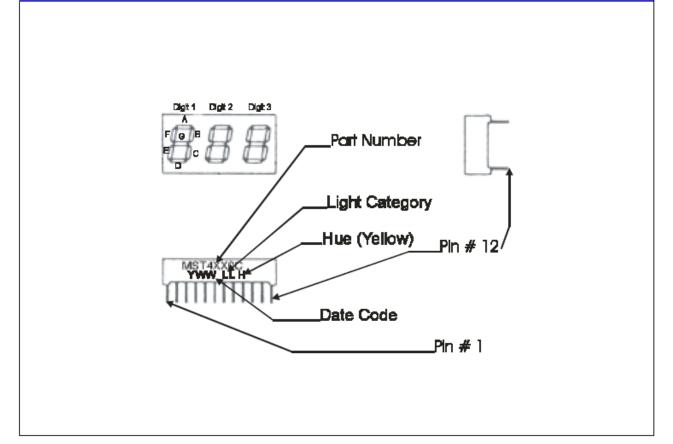
(1) Data per individual LED element

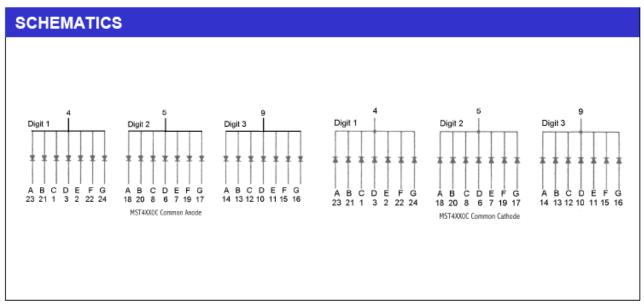
(2) Luminous intensity (ucd) = average light output per segment

(3) B = breakdown

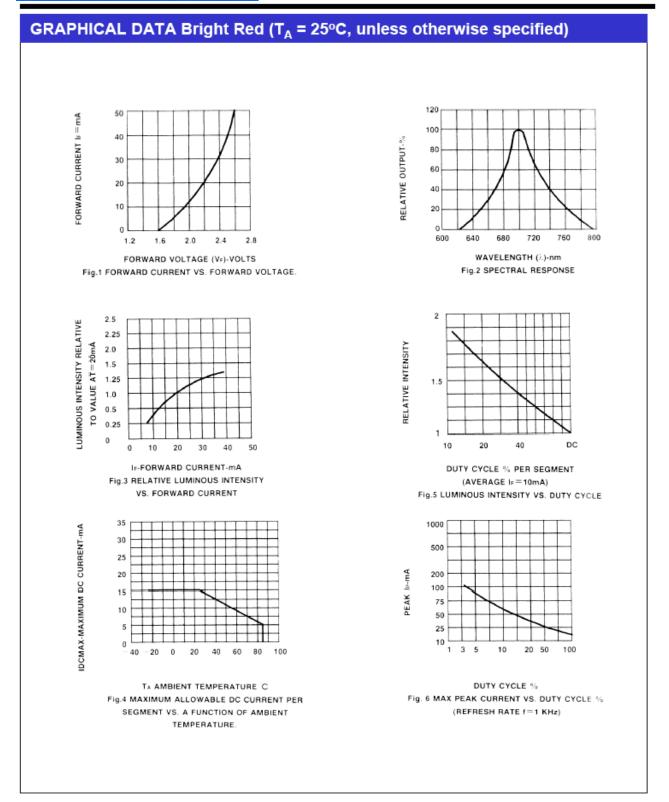


PIN ORIENTATION, SEGMENT IDENTIFICATION, AND PRODUCT MARKING

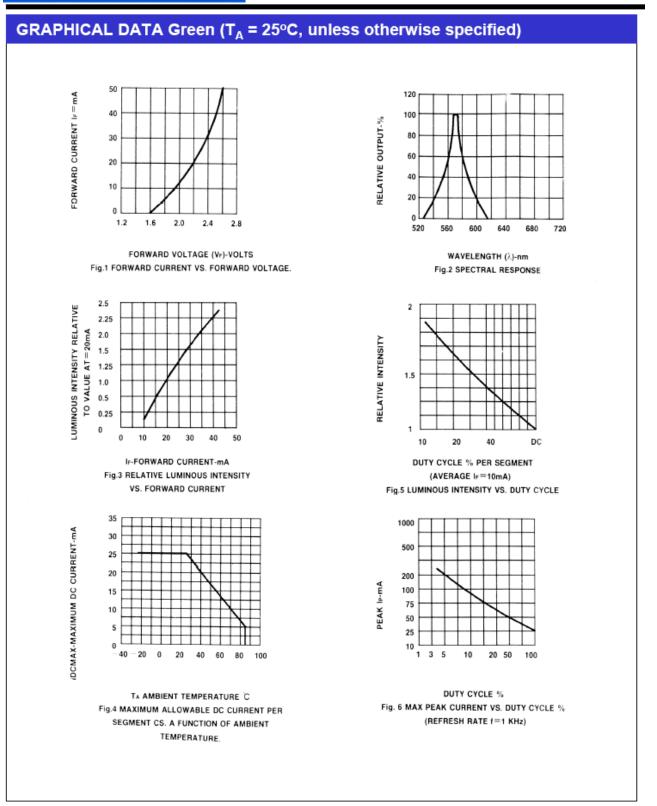






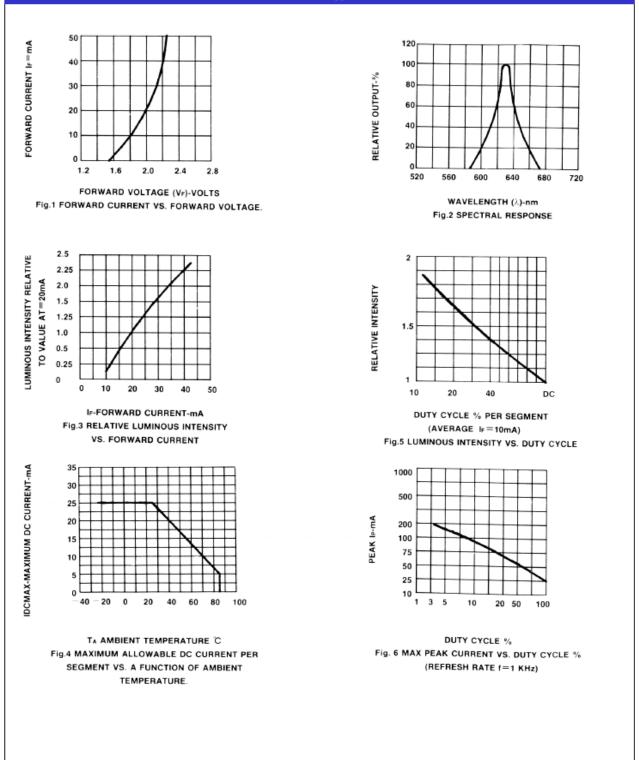








GRAPHICAL DATA High Efficiency Red(T_A = 25°C, unless otherwise specified)





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- 2. A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.