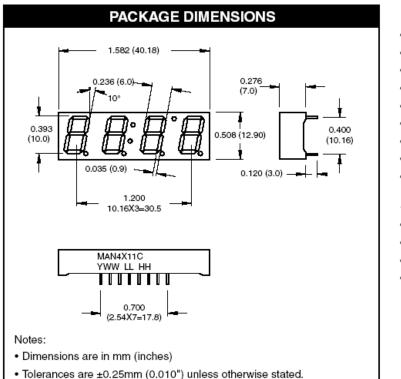


Bright Red MSQC4111C High Efficiency MSQC4911C Green MSQC4411C



Features

- · Bright bold segments
- Common Anode/Cathode
- Low Power Consumption
- Low Current Capability
- Neutral Segments
- Grey Face
- Epoxy Encapsulated PCB
- High Performance
- High Reliability

Applications

- Appliances
- Automotive
- Instrumentation
- Process control

MODELS AVAILABLE					
Part Number Color Description					
MSQC4111C	Bright Red	Four Digit, 12/24 hour Clock Display, CA			
MSQC4411C	Green	Four Digit, 12/24 hour Clock Display, CA			
MSQC4911C	High Efficiency Red	Four Digit, 12/24 hour Clock Display, CA			



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Part Number Parameter	MSQC411C	MSQC4411C	MSQC4910C	Units	
Continuous Forward Current (each segment)	15	25	25	mA	
Peak Forward Current (F = 10KHz, D/F = 1/10)	60	100	90	mA	
Power Dissipation (P _D)	40	75	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°C, unless otherwise specified)									
Part Number Parameter	MSQC4111C	MSQC4411C	MSQC4911C	Units	Test Condition				
Luminous intensity ⁽²⁾ (I _V)									
Minimum (Standard Current)	300	800	800	μcd	I _F = 20mA				
Typical (Standard Current)	700	2000	2000	μcd	I _F = 20mA				
Minimum (Low Current)		Not Available							
Typical (Low Current)		Not Available							
Forward Voltage (V _F)									
Typical (Standard Current)	2.10	2.10	2.00	V	I _F = 20mA				
Maximum (Standard Current)	2.80	2.80	2.80	v	I _F = 20mA				
Typical (Low Current)		Not Available							
Maximum (Low Current)		Not Available							
Peak Wavelength	695	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	v	l _R = 100μΑ				

NOTES:

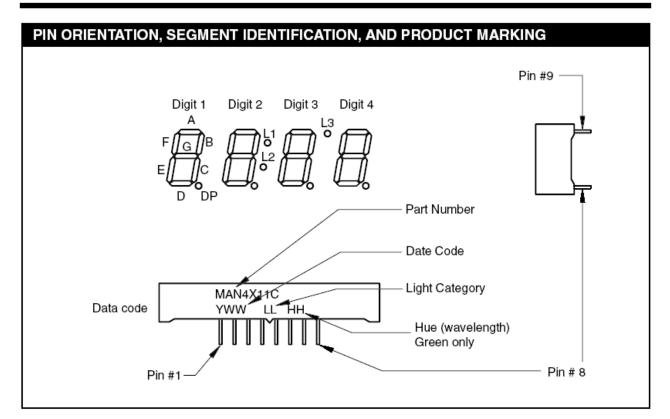
(1) Data per individual LED element

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

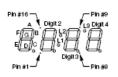
(3) B = breakdown

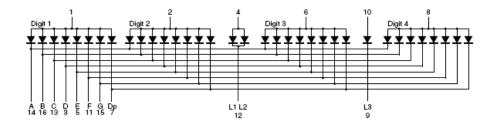


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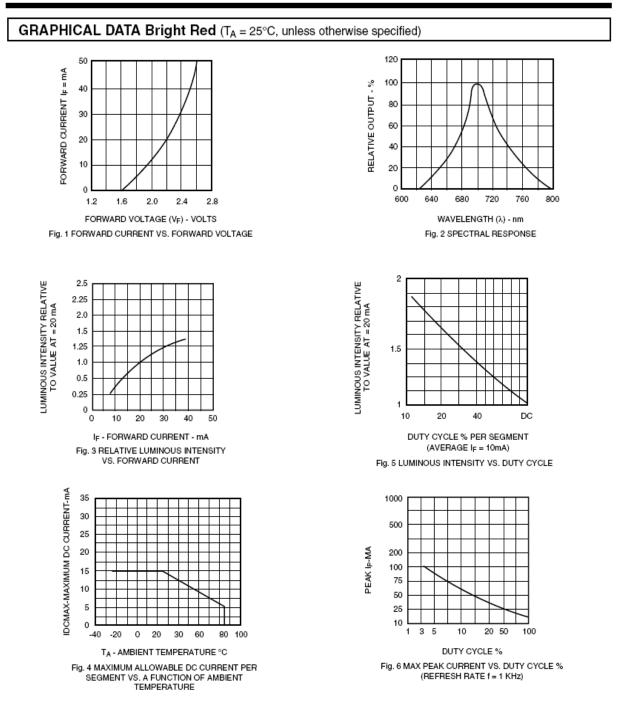
SCHEMATICS





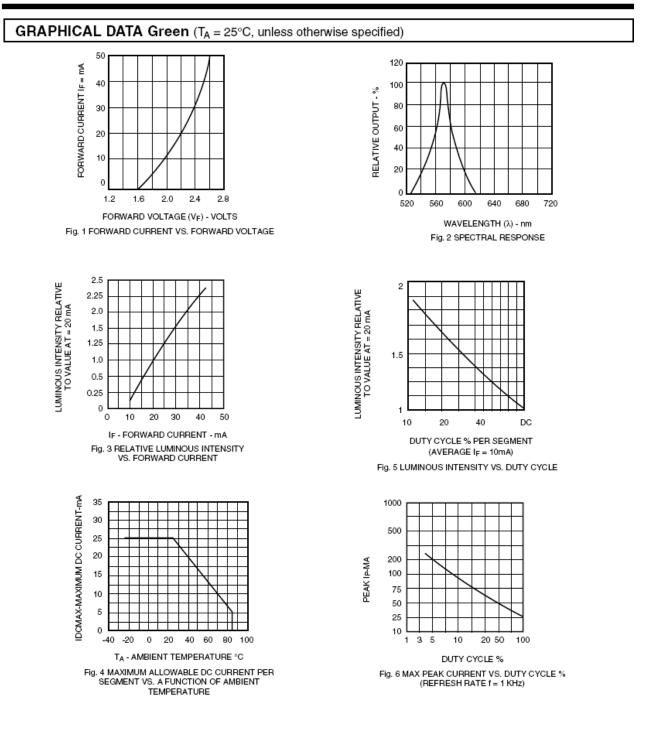


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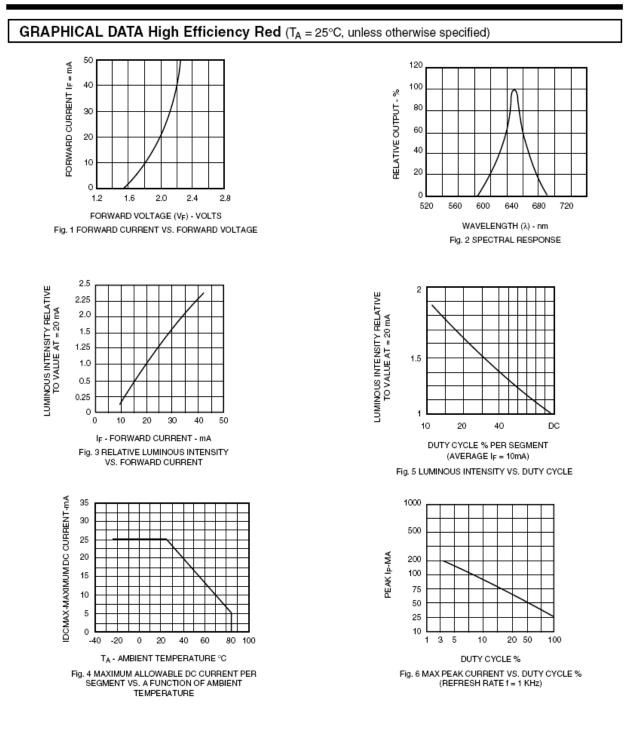


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Bright Red MSQC4111C High Efficiency MSQC4911C Green MSQC4411C





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