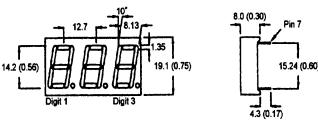
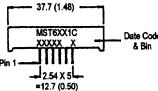
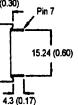


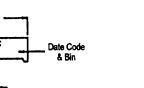
BRIGHT RED MST6111C, MST6141C GREEN MST6411C, MST6441C **MST6911C, MST6941C HIGH EFF. RED**

PACKAGE DIMENSIONS









FEATURES

Easy to read digit Common anode or cathode Low power consumption **Highly visible bold segments** High brightness with high contrast White segments on a grev face for MST64X1C and MST61X1C. Red segments and red face for MST69X1C Directly compatible with integrated circuits Rugged plastic/epoxy construction

APPLICATIONS

Digital readout displays Instrument panels

NOTES: Dimensions are in mm (inch). All pins are 0.5 (0.02) diameter Tolerances are ± 0.25 (0.1) unless otherwise noted.

MODEL NUMBERS

Part number Color **Description MST6111C Bright Red** Common Anode; right hand decimal Common Cathode; right hand decimal **MST6141C Bright Red MST6411C** Green Common Anode; right hand decimal **MST6441C Common Cathode: right hand decimal** Green **MST6911C Common Anode; right hand decimal High Efficiency Red MST6941C High Efficiency Red** Common Cathode; right hand decimal (For other color options, contact your local area Sales Office)



ABSOLUTE MAXIMUM RATING (TA=25°C unless otherwise specified)

Part number	B.Red MST 6111C 6141C	Green MST 6411C 6441C	High Eff. Red MST 6911C 6941C	Unit
Continuous forward current (I _f)				•••••
Per Segment	15	30	30	mA
Peak forward current per die (I _f) (at f = 10.0 KHz, Duty factor = 1/10)	60	90	90	mA
Power dissipation (P _p)	40*	70*	70*	mW
*Derate Linearly from 25°C	0.17	0.33	0.33	mW/°C
Reverse voltage per dice				5V
Operating and Storage temperat	25°C to +85°C			
Lead soldering time (at 1/16 inch fr	5 seconds @ 230°C			

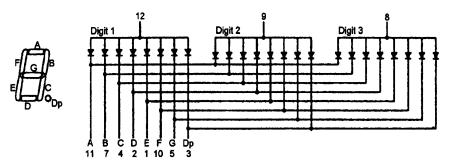
ELECTRO - OPTICAL CHARACTERISTICS (T_A = 25°C unless otherwise specified)

Deut aurah en	Bright Red MST 6111C 6141C	Green MST 6411C 6441C	High Eff. Red MST 6911C 6941C	Test Condition
Part number	01410	04410	69410	Condition
Luminous intensity (ucd)				
minimum	300	800	900	l, = 20mA
typical	700	2200	2200	l, = 20mA
Forward voltage (V,)				
typical	2.1	2.1	2.0	l, = 20mA
maximum	2.6	2.8	2.8	
Peak wavelength (nm)	697	570	635	l, = 20mA
Spectral line half width (nm)	90	30	45	l, = 20mA
Reverse breakdown voltage (V	_R) 5	5	5	i _R =100uA

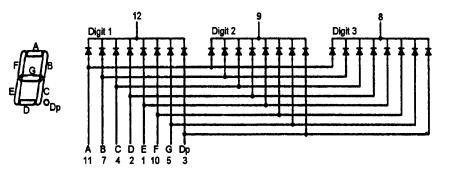


PINOUT

MST6X11C - Common Anode

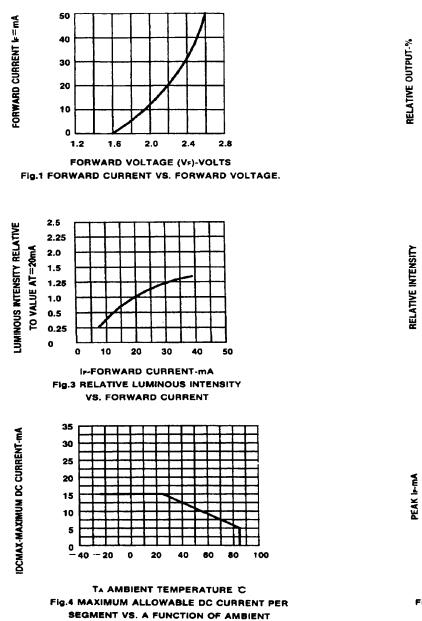


MST6X41C - Common Cathode

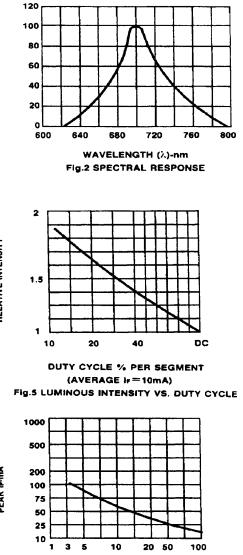




GRAPHICAL DATA - Bright Red (T_A = 25°C unless otherwise specified)



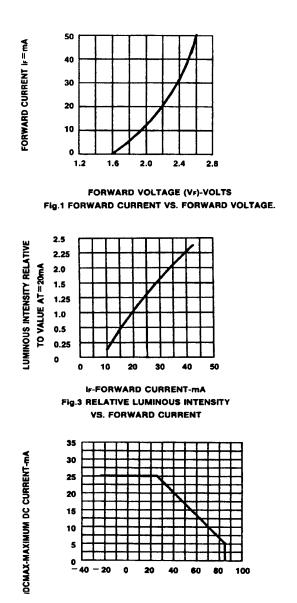
TEMPERATURE.



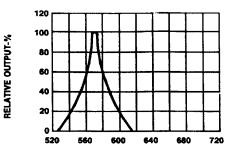
DUTY CYCLE % Fig. 6 MAX PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE 1=1 KHz)



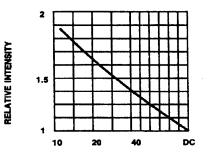
GRAPHICAL DATA - Green ($T_A = 25^{\circ}C$ unless otherwise specified)



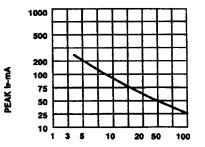




WAVELENGTH (λ)-nm Fig.2 SPECTRAL RESPONSE



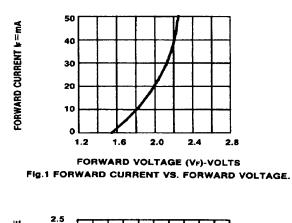
DUTY CYCLE % PER SEGMENT (AVERAGE Ir=10mA) Fig.5 LUMINOUS INTENSITY VS. DUTY CYCLE

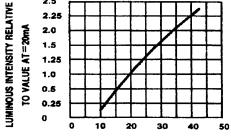


DUTY CYCLE % Fig. 6 MAX PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE 1=1 KHz)



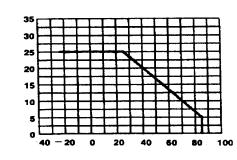
GRAPHICAL DATA - High Efficiency Red (T_A = 25°C unless otherwise specified)







IDCMAX-MAXIMUM DC CURRENT-mA



TA AMBIENT TEMPERATURE C Fig.4 MAXIMUM ALLOWABLE DC CURRENT PER SEGMENT VS. A FUNCTION OF AMBIENT TEMPERATURE.

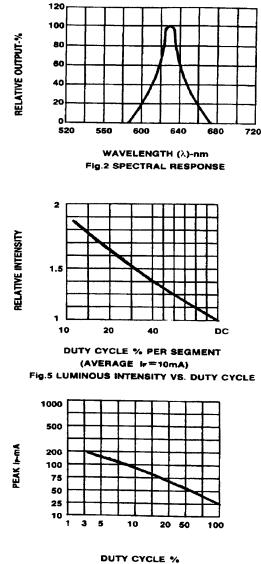


Fig. 6 MAX PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE 1=1 KHz)



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