

# MICRO

ELECTRONIC

MSG1557A/C

THREE COLOR  
EMITTED LED DOT  
MATRIX DISPLAY

## FEATURES :

Three emitted color : High efficiency red, green, orange  
(The mixture of high efficiency red and green)  
Anode column, Cathode row (MSG1557A);  
Cathode column, Anode row (MSG1557C)  
High contrast  
Wide viewing angle  
5 x 7 matrix array with row-column select  
Regged encapsulation (Filled reflector construction)  
End & side stackable

## ABSOLUTE MAXIMUM RATINGS

Power Dissipation / Dot	75mW
Peak Forward Current / Dot*	100mA
Continuous Forward Current / Dot	25mA
Reverse Voltage / Dot	5V
Operating Temperature Range	-25 to +80°C
Storage Temperature Range	-20 to +75°C

\* Note : Pulse Width = 1mS, Duty Ratio = 1/10.

## ELECTRO-OPTICAL CHARACTERISTICS (Ta=25°C)

PARAMETER		SYMBOL	Hi-Eff. Red	Green	UNIT	CONDITIONS
Forward Voltage	MAX	VF	3.0	3.0	V	IF=20mA
Luminous Intensity	MIN	IV	1200	1800	$\mu$ cd	IF=10mA
	TYP		2000	3000	$\mu$ cd	
Dot to Dot Luminous Intensity Ratio	MAX		2:1	2:1		IF=10mA
Reverse Current	MAX	IR	100	100	$\mu$ A	VR=5V
Peak Wavelength	TYP	$\lambda_p$	650	565	nm	IF=20mA
Spectral Line Half Width	TYP	$\Delta\lambda$	35	30	nm	IF=20mA



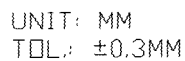
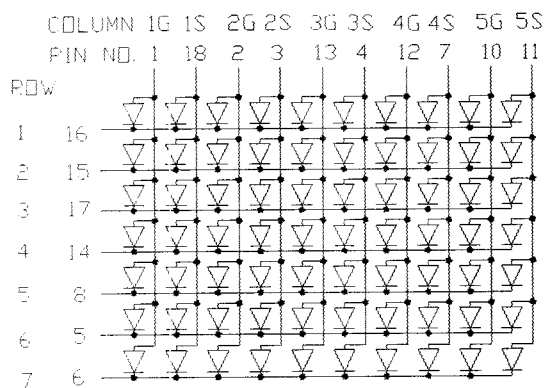
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Dec-97

## COL.1 2 3 4 5


$$A: \quad AC$$


COLUMN	1G	1S	2G	2S	3G	3S	4G	4S	5G	5S
PIN NO.	1	18	2	3	13	4	12	7	10	11

