

# MICRO ELECTRONICS

MG2157A/C  
MO2157A/C  
MY2157A/C  
MU2157A/C

LED DOT MATRIX DISPLAY

## FEATURES :

Red, green, orange, yellow, ultra bright red.

MS2157A/C - Red GaP  
MG2157A/C - Green GaP  
MO2157A/C - Orange GaAsP  
MY2157A/C - Yellow GaAsP  
MU2157A/C - Ultra bright red GaAlAs

Anode column, Cathode row (with suffix A);

Cathode column, Anode row (with suffix C)

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

	MS2157A	MG2157A	MO2157A	MY2157A	MU2157A	UNIT	
	MS2157C	MG2157C	MO2157C	MY2157C	MU2157C		
Power Dissipation / Dot	40	75	75	60	100	mW	
Peak Forward Current / Dot*	60	100	100	80	160	mA	
Continuous Forward Current / Dot	15	25	25	20	30	mA	
Reverse Voltage / Dot	5	5	5	5	5	V	
Operating Temperature Range						-20 to +80	°C
Storage Temperature Range						-20 to +75	°C
Lead Soldering Temperature (1/16" from body, 5 sec.)						260	°C

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

## ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25°C)

PARAMETER	SYMBOL	MS2157A	MG2157A	MO2157A	MY2157A	MU2157A	UNIT	CONDITIONS	
		MS2157C	MG2157C	MO2157C	MY2157C	MU2157C			
Forward Voltage	TYP	VF	2.2	2.2	2.0	2.1	1.8	V	IF=20mA
	MAX		3.0	3.0	3.0	3.0	2.4	V	
Luminous Intensity	MIN	IV	0.6	3	2	1.8	4.5	mcd	IF=10mA
	TYP		1	5.5	3.2	2.8	9	mcd	
Dot to Dot Luminous Intensity Ratio	MAX		2:1	2:1	2:1	2:1	2:1		IF=10mA
Reverse Current	MAX	IR	100	100	100	100	100	μA	VR=5V
Peak Wavelength	TYP	λp	700	565	630	585	660	nm	IF=20mA
Spectral Line Half Width	TYP	Δλ	100	30	40	35	20	nm	IF=20mA

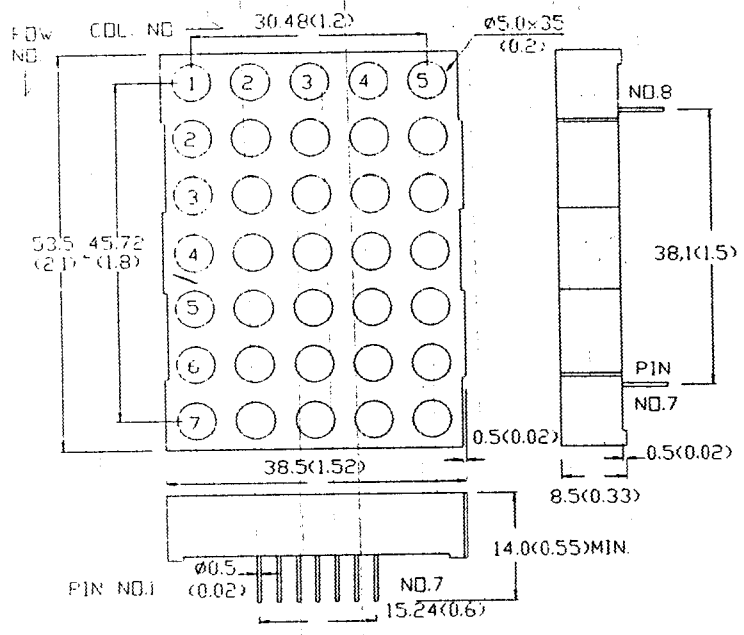


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Mar-97



(A)  
 COLUMN 1 2 3 4 5  
 PIN NO. 13 3 4 10 6

RDW

1	9	▽	▽	▽	▽	▽
2	14	▽	▽	▽	▽	▽
3	8	▽	▽	▽	▽	▽
4	12	▽	▽	▽	▽	▽
5	1	▽	▽	▽	▽	▽
6	7	▽	▽	▽	▽	▽
7	2	▽	▽	▽	▽	▽

(B)  
 COLUMN 1 2 3 4 5  
 PIN NO. 13 3 4 10 6

RDW

1	9	△	△	△	△	△
2	14	△	△	△	△	△
3	8	△	△	△	△	△
4	12	△	△	△	△	△
5	1	△	△	△	△	△
6	7	△	△	△	△	△
7	2	△	△	△	△	△