

LED DOT MATRIX DISPLAY

4678158 0000618 4

I I STANLEY CO INC

25E D

The MD Series of stanley dot-matrix displays can handle virtually any display applications, including numerals, letters, special characters and graphics.

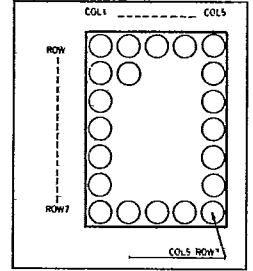
Versions are available with 5x7, 8x8 and 16x16 dot configurations in single color and bi-color types.

T-41-35

▼ DESCRIPTION ON TYPE NO.

MD 12 08 C - R

Outer Dimensions	No. of Dot	Type	Emitted Color
06:0.6inch(20mm)	57:5x7	C:Chip	R:Red
12:1.2inch(32mm)	08:8x8	L:Lamp	A:Orange
20:2.0inch(53mm)	16:16x16	M:Mold	Y:Yellow
25:2.5inch(64mm)			G:Green
37:3.7inch(96mm)			RG:Red Green



▼ CHARACTERISTICS BY COLOR (EACH CHIP)

Ta=25°C

Emitted Color	Absolute Maximum Ratings					Electro-Optical Characteristics									
	Power Dissipation Pd	Forward Current If	Peak Forward Current *1IfM	Operating Temp Topr	Storage Temp Tstg	Forward Voltage Vf		Reverse Current Ir		Peak Wavelength λp		Derating ΔIfM			
						TYP.	MAX.	If	MAX.	Vr	TYP.	If	ΔIfM		
Chip type Mold type	Red (MD0657M-R)	30	—	60	-20~+70	-20~+85	1.7	2.0	10	100	4	660	10	0.89	
	Red	22	—	70	-20~+70	-30~+80	1.7	2.0	20	20	6.5	660	20	0.5	
	Orange	22	—	70	-20~+70	-30~+80	2.2	2.5	20	20	6.5	605	20	0.5	
	Yellow	22	—	70	-20~+70	-30~+80	2.1	2.5	20	20	6.5	570	20	0.5	
	Green	22	—	70	-20~+70	-30~+80	2.1	2.5	20	20	6.5	560	20	0.5	
	Bi-Color	Red Green	*2,22	—	*2,70	-20~+70	-30~+80	1.7	2.0	20	20	6.5	660	20	0.5
Lamp type	Red	60	30	100	-20~+70	-30~+80	1.7	2.0	20	20	4	660	20	0.5	
	Orange	75	30	100	-20~+70	-30~+80	2.2	2.5	20	20	4	605	20	0.5	
	Yellow	75	30	100	-20~+70	-30~+80	2.1	2.5	20	20	4	570	20	0.5	
	Green	75	30	100	-20~+70	-30~+80	2.1	2.5	20	20	4	560	20	0.5	
	Bi-Color	Red Green	*2,75 *2,75	*2,30 *2,30	*2,100 *2,100	-20~+70	-30~+80	2.0 2.1	2.5 2.5	20 20	20 20	4 4	630 570	20 20	0.5 0.5
	Units		mW	mA	mA	°C	V		mA	μA	V	nm	mA	mA/°C	

*1:IfM values apply under the conditions $tw \leq 1\text{msec}$ and $duty \leq 1/16$

*2:Items marked *2 are for single-color drive. For two driven colors, total values are to be within specified ratings.

(IfM values of MD0657M-R apply under the conditions, $tw \leq 0.2\text{ms}$ and the duty cycle $\leq 1/5$.)

▼ CHARACTERISTICS BY SHAPE

Ta=25°C

Shape	Color	Type No.	Emitted Color	Dot Size	Dot Pitch	Dot Format	Electro-Optical Characteristics	
							Luminous Intensity I _v /dot	
							MIN.	If
	Single-color	MD0657M-R (14x20)	Red	φ2.2	2.54	5x7	1	10
		MD2057C-R (37x53)	Red	φ5	Y 7.2 X 6.8	5x7 (35dots)	3	20
		MD2057C-A (37x53)	Orange				2	20
		MD2057C-Y (37x53)	Yellow				2	20
		MD2057C-G (37x53)	Green				2	20
Bi-color	MD2057C-RG (37x53)	Red Green	3	20				
	2	20						
	Single-color	MD1208C-R	Red	φ3	4	8x8 (64dots)	3	20
		MD1208C-A	Orange				2	20
		MD1208C-Y	Yellow				2	20
		MD1208C-G	Green				2	20
	Bi-color	MD1208C-KRG-ARG	Red Green	3	20			
2	20							
	Single-color	MD2516C-R	Red	φ3	4	16x16 (256dots)	3	20
		MD2516C-A	Orange				2	20
		MD2516C-Y	Yellow				2	20
		MD2516C-G	Green				2	20
	Bi-color	MD2516C-KRG-ARG	Red Green	3	20			
2	20							
	Single-color	MD3716M-R	Red	φ5	6	16x16 (256dots)	3	20
		MD3716M-A	Orange				2	20
		MD3716M-Y	Yellow				2	20
		MD3716M-G	Green				2	20
	Bi-color	MD3716M-RG	Red Green	3	20			
2	20							
	Single-color	MD3716L-R	Red	φ5	6	16x16 (256dots)	3	20
		MD3716L-A	Orange				3	20
		MD3716L-Y	Yellow				3	20
		MD3716L-G	Green				2	20
	Bi-color	MD3716L-RG	Red Green	1.5	20			
2	20							
Units				mm	mm	dot	mod	mA

