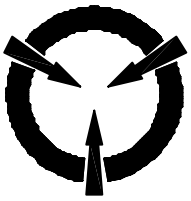
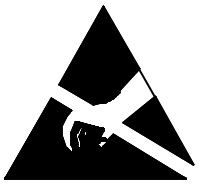
COTCO INTERNATIONAL LTD

DM5-5824R6-DA01

DATA SHEET





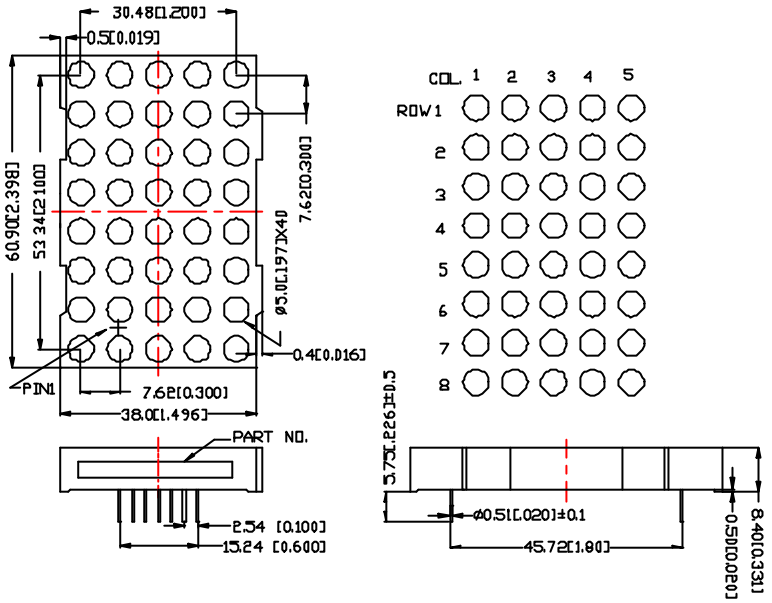
COTCO			CUSTOMER
NOTE:			

REVISION: 02

■ Features:

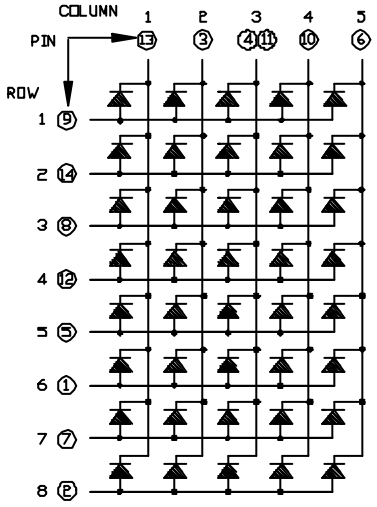
. High Reliability
. Red Color Dot Matrix
. Low Power Requirement
. Easy Assembly
. 5 ×8Dot Matrix
. ψ5mm Dot and Pitch 7.62mm
. Black Face and Diffuser Epoxy Dots

■ Outer Dimension:



Notes :Unless otherwise stated, The tolerance is ±0.25mm.

■ Circuit Diagram



PIN NO.	FUNCTION
1	ANODE ROW 6
2	ANODE ROW 8
3	CATHODE COL 2
4	CATHODE COL 3
5	ANODE ROW 5
6	CATHODE COL 5
7	ANODE ROW 7
8	ANODE ROW 3
9	ANODE ROW 1
10	CATHODE COL 4
11	CATHAOE COL 3
12	ANODE ROW 4
13	CATHAOE COL 1
14	ANODE ROW 2

■ **Absolute Maximum Rating (Ta=25℃):**

Parameter	Symbol	Condition	Color	Rating	Units
Maximal Power Dissipation (When completely Lighting) Per Dot	P_d	—	Red	34.5	mW
Maximal Forward Current (When completely Lighting) Per Dot	I_F	—	Red	15	mA
Derating Of I_F Per Dot	$\triangle I_F$	Ta≧25℃	Red	0.166	mA/℃
Peak Forward Current Per Dot	I_{FP}	1/8Duty 10khz	Red	100	mA
Reverse Voltage Per Dot	V_R	—	Red	5	V
Operating Temperature Range	Topr	—	—	-35 +85	℃
Storage Temperature Range	Tstg	—	—	-35 +85	℃

■ **Electrical/Optical Characteristics Rating(Ta=25℃)**

Item	Symbol	Test conditions	Location	Color	Rating			Units
					Min.	Typ.	Max	
Forward Voltage	V_F	I_F=20mA	Per Dot	Red	—	1.95	2.30	V
Reverse Current	I_R	V_R=5V	Per Dot	Red	—	—	100	μA
Luminous Intensity	I_V	1/8Duty I_{FP} =40mA	Per Dot	Red	5.34	8.00	—	mcd
Wave Length	λ_P λ_D	I_F=20mA	Per Dot	Red	—	660 640	—	nm
Spectral Line Half Width	$\triangle\lambda$	I_F=20mA	Per Dot	Red	—	20	—	nm
Electrostatic Discharge Threshold (HBM)	ESD	—	—		—	1000	—	V
Luminous Intensity Matching Ratio (Dot To Dot)	I_{V-M}	1/8Duty I_{FP} =40mA					2:1	

■ **Luminous Intensity Sorting(1/8Duty,I_{FP}=40mA; The Tolerance is +/-10%)**

B IN / COLOR	M	N	O	P	Q
Red (mcd)	5.34-6.41	6.42-7.70	7.71-9.24	9.25-11.11	11.12-13.34

■ **Soldering Conditions : Soldering Temp. ≦+260℃**

Soldering Time. ≦3sec.

(at 2mm Distance from The Case of Reflector Edge)