

High Reliability 0.7-inch 2mm 5*7 Dot Matrix LED Displays

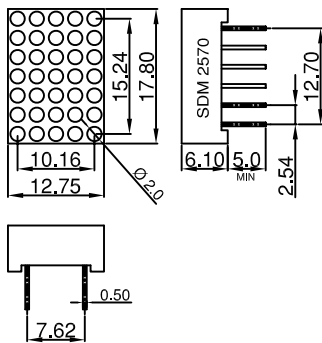
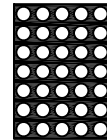
SDM-2570 SDM-2577

Outline Dimensions

PACKAGE DIMENSIONS

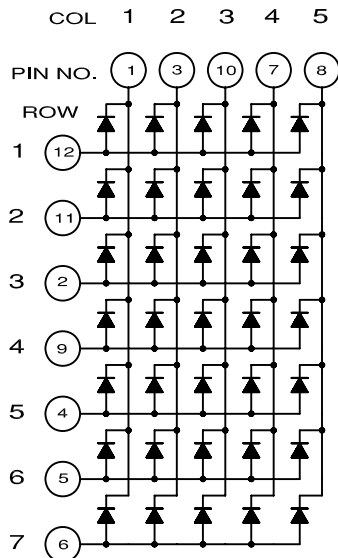
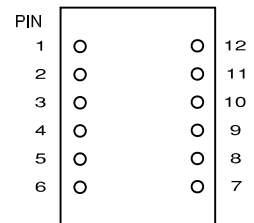
SCALE 1:1 (mm)

Actual size

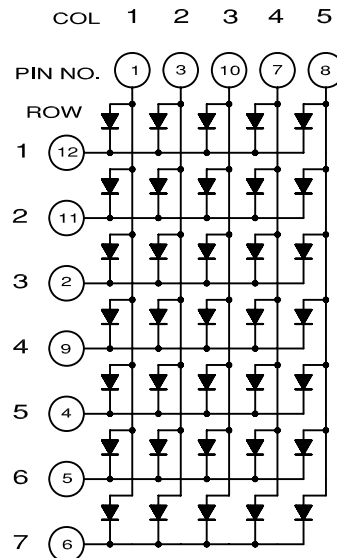


PIN ARRANGEMENT

(Top View)



SDM-2577 (Cathode column)



SDM-2570 (Cathode row)



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Red SDM 2570/2577R (GaP)

Absolute Maximum Ratings (T_a = 25°C)

Power dissipation/Total	700	mW
Power dissipation/ Dot	20	mW
Forward current	10	mA
Peak forward current	60*	mA
Reverse voltage	4	V
Operating temperature	- 25 ~ + 85	°C
Storage temperature	- 55 ~ + 100	°C

Electrical/Optical Characteristics (T_a = 25°C)

Parameter	Symbol	Conditions	Min	Typ	Max.	Unit
Forward voltage/Seg	V _F	I _F = 10mA	—	2.1	2.3	V
Reverse current /Seg	I _R	V _R = 4V	—	—	10	μA
Luminous intensity/digit	I _v	I _F = 10mA	300	800	—	μcd
Peak wavelength	λ _P	I _F = 10mA	—	700	—	nm
Spectral line halfwidth	Δλ	I _F = 10mA	—	100	—	nm

Green SDM 2570/2577G (GaP)

Absolute Maximum Ratings (T_a = 25°C)

Power dissipation/Total	700	mW
Power dissipation/ Dot	20	mW
Forward current	10	mA
Peak forward current	60*	mA
Reverse voltage	4	V
Operating temperature	- 25 ~ + 85	°C
Storage temperature	- 55 ~ + 100	°C

Electrical/Optical Characteristics (T_a = 25°C)

Parameter	Symbol	Conditions	Min	Typ	Max.	Unit
Forward voltage/Seg	V _F	I _F = 10mA	—	2.1	2.3	V
Reverse current /Seg	I _R	V _R = 4V	—	—	10	μA
Luminous intensity/digit	I _v	I _F = 10mA	350	900	—	μcd
Peak wavelength	λ _P	I _F = 10mA	—	555	—	nm
Spectral line halfwidth	Δλ	I _F = 10mA	—	30	—	nm

Orange SDM 2570/2577SR (GaAsP/GaP)

Absolute Maximum Ratings (T_a = 25°C)

Power dissipation/Total	700	mW
Power dissipation/ Dot	20	mW
Forward current	10	mA
Peak forward current	60*	mA
Reverse voltage	4	V
Operating temperature	- 25 ~ + 85	°C
Storage temperature	- 55 ~ + 100	°C

Electrical/Optical Characteristics (T_a = 25°C)

Parameter	Symbol	Conditions	Min	Typ	Max.	Unit
Forward voltage/Seg	V _F	I _F = 10mA	—	2.0	2.2	V
Reverse current /Seg	I _R	V _R = 4V	—	—	10	μA
Luminous intensity/digit	I _v	I _F = 10mA	700	1500	—	μcd
Peak wavelength	λ _P	I _F = 10mA	—	635	—	nm
Spectral line halfwidth	Δλ	I _F = 10mA	—	35	—	nm

Yellow-green SDM 2570/2577UG (GaP)

Absolute Maximum Ratings (T_a = 25°C)

Power dissipation/Total	700	mW
Power dissipation/ Dot	20	mW
Forward current	10	mA
Peak forward current	60*	mA
Reverse voltage	4	V
Operating temperature	- 25 ~ + 85	°C
Storage temperature	- 55 ~ + 100	°C

Electrical/Optical Characteristics (T_a = 25°C)

Parameter	Symbol	Conditions	Min	Typ	Max.	Unit
Forward voltage/Seg	V _F	I _F = 10mA	—	2.1	2.3	V
Reverse current /Seg	I _R	V _R = 4V	—	—	10	μA
Luminous intensity/digit	I _v	I _F = 10mA	600	1500	—	μcd
Peak wavelength	λ _P	I _F = 10mA	—	565	—	nm
Spectral line halfwidth	Δλ	I _F = 10mA	—	30	—	nm

* Pulse Width 1 ms
Duty Cycle 1/5