High Brightness 1.2-inch 7-Segment Numeric LED Displays

SND-1210 SND-1217

GENERAL DESCRIPTION

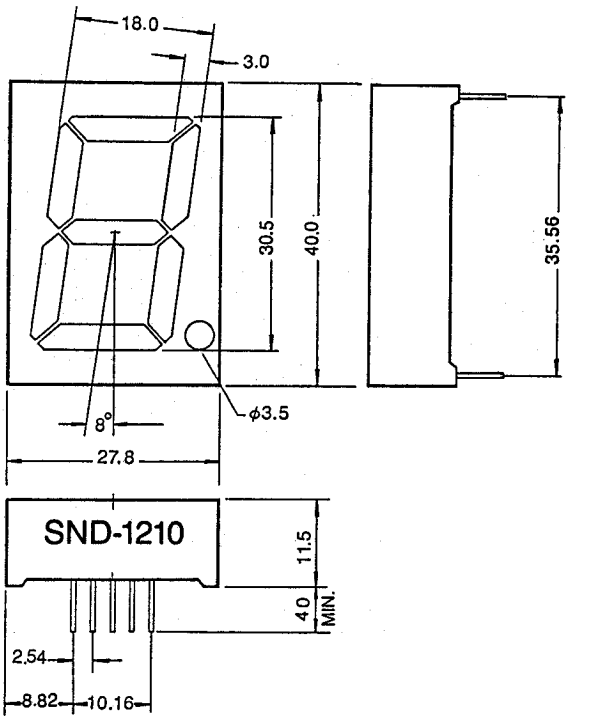
The SND-1210 and the SND-1217 series are 1.2 inch (30.5mm) character height epoxy resin molded 7 segment LED displays and available in red, orange and yellow-green emitting colors.
The standard unit is constructed with black face and milky white segment color.

FEATURES

1. High brightness with high contrast
2. Uniform brightness and wide angle viewing
3. Low power consumption
4. Solid state stability and long operation life
5. Cathode common (SND-1210) and anode common (SND-1217) types available

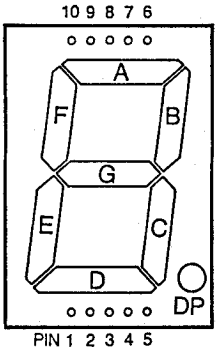
PACKAGE DIMENSIONS

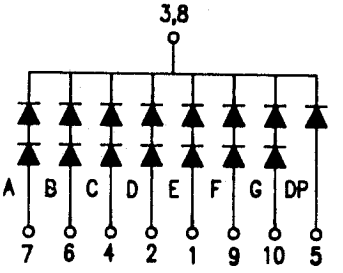
SCALE 1:1 (mm)



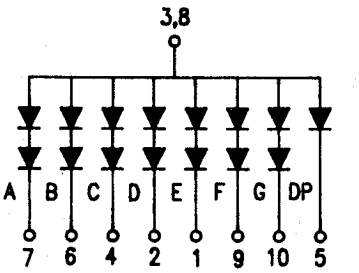
PIN ARRANGEMENT

(Top View)





SND-1210
(Cathode Common)



SND-1217
(Anode Common)

三光半導体株式會社
SAM KWANG SEMICONDUCTOR CO.,LTD.
803 Silla Techno Vil., 39-3 Dang-dong Kunpo-City Kyungki-do, Korea,
TEL:031-456-1444/1484, FAX:031-456-4224

Red SND 1210/1217UR (GaAlAs)

Absolute Maximum Ratings (T_a=25°C)

Power dissipation/Total	600	mW
Power dissipation/Seg	80	mW
Forward current	20	mA
Peak forward current	60*	mA
Reverse voltage	10	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	—	3.8	4.0	V
Reverse current/Seg	I_R	V_R = 10V	—	—	10	μA
Luminous intensity/digit	I_V	I_F = 10mA	1000	2000	—	μcd
Peak wavelength	λ_P	I_F = 10mA	—	660	—	nm
Spectral line halfwidth	$\Delta\lambda$	I_F = 10mA	—	20	—	nm

Orange SND 1210/1217SR (GaAsP/GaP)

Absolute Maximum Ratings (T_a=25°C)

Power dissipation/Total	600	mW
Power dissipation/Seg	80	mW
Forward current	20	mA
Peak forward current	60*	mA
Reverse voltage	10	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	—	4.0	4.4	V
Reverse current/Seg	I_R	V_R = 10V	—	—	10	μA
Luminous intensity/digit	I_V	I_F = 10mA	600	1200	—	μcd
Peak wavelength	λ_P	I_F = 10mA	—	635	—	nm
Spectral line halfwidth	$\Delta\lambda$	I_F = 10mA	—	35	—	nm

Yellow-green SND 1210/1217UG (GaP)

Absolute Maximum Ratings (T_a=25°C)

Power dissipation/Total	600	mW
Power dissipation/Seg	80	mW
Forward current	20	mA
Peak forward current	60*	mA
Reverse voltage	10	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	—	4.2	4.6	V
Reverse current/Seg	I_R	V_R = 10V	—	—	10	μA
Luminous intensity/digit	I_V	I_F = 10mA	700	1300	—	μcd
Peak wavelength	λ_P	I_F = 10mA	—	565	—	nm
Spectral line halfwidth	$\Delta\lambda$	I_F = 10mA	—	30	—	nm

* Pulse Width ..... 1 ms
  Duty Cycle 1/5