High Brightness 2.5-inch 7-Segment Numeric LED Displays

SND-2510 SND-2517

GENERAL DESCRIPTION

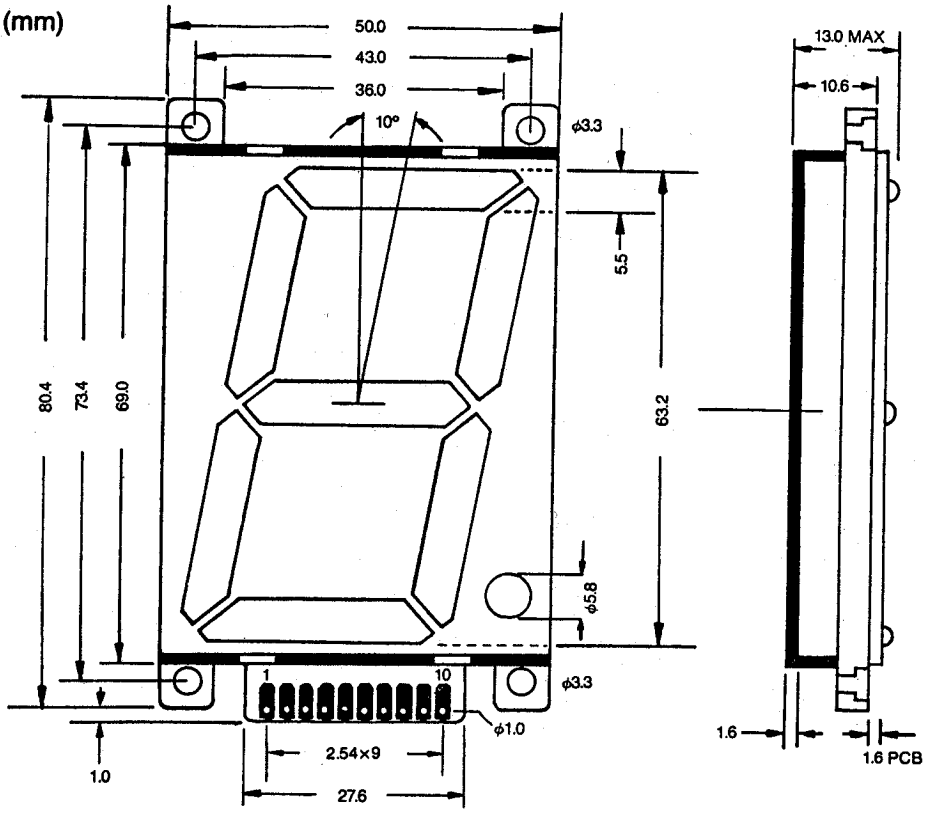
The SND-2510 and the SND-2517 series are high brightness single digit large 7 segment numeric LED displays which character height is 2.5 inch (63.2mm) and available in orange and red emitting colors. There is a choice of the two configurations; two chips are connected in parallel as a standard and three chips are connected in parallel as a special unit.

FEATURES

1. High brightness with high contrast
2. Uniform brightness and wide angle viewing
3. Easily fixiable on any pannel
4. Solid state stability
5. Cathode common (SND-2510) and anode common (SND-2517) types available

PACKAGE DIMENSIONS

SCALE 1:1 (mm)



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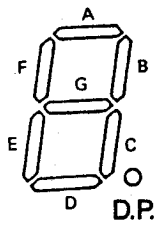
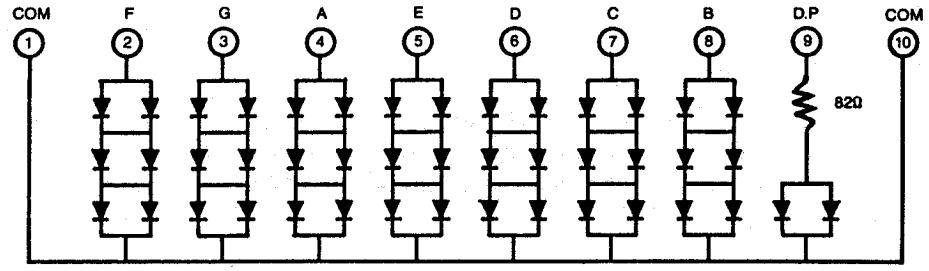
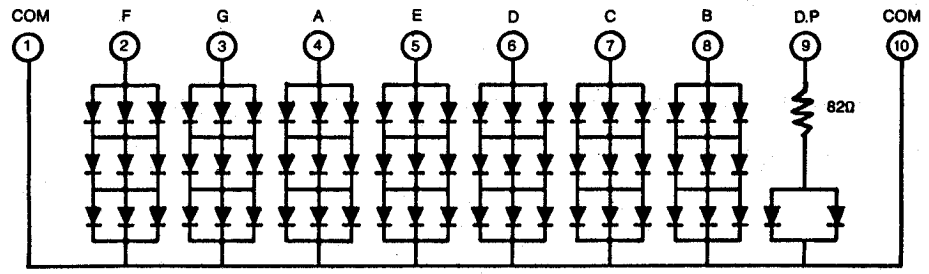
PIN CONNECTIONS





SND-2510 SR2 (STANDARD)



SND-2510 SR3 (SPECIAL)

SND-2517 SR2/ SND-2517 SR3 (Anode Common)
All diodes are reversed polarity

Orange SND 2510SR2/2517SR2 (GaAsP/GaP)

Absolute Maximum Ratings (T_a = 25°C)

Parameter	Maximum rating	Unit
Power dissipation/Total	1760	mW
Power dissipation/Seg	240	mW
Forward current	40	mA
Peak forward current	120 *	mA
Reverse voltage	15	V
Operating temperature	−25 ~ +80	°C
Storage temperature	−55 ~ +100	°C

Electrical/Optical Characteristics (T_a = 25°C)

Parameter	Symbol	Conditions	Min	Typ	Max.	Unit
Forward voltage	V_F	I_F = 30mA	—	5.6	6.0	V
Reverse current	I_R	V_R = 15V	—	—	20	μA
Luminous intensity/Seg	I_V	I_F = 30mA	700	1300	—	μcd
Peak wavelength	λ_P	I_F = 30mA	—	635	—	nm
Spectral line halfwidth	$\Delta\lambda$	I_F = 30mA	—	35	—	nm
Segment intensity matching				9:1		Ratio

Orange SND 2510SR3/2517SR3 (GaAsP/GaP)

Absolute Maximum Ratings (T_a = 25°C)

Parameter	Maximum rating	Unit
Power dissipation/Total	2600	mW
Power dissipation/Seg	360	mW
Forward current	60	mA
Peak forward current	180 *	mA
Reverse voltage	15	V
Operating temperature	−25 ~ +80	°C
Storage temperature	−55 ~ +100	°C

Electrical/Optical Characteristics (T_a = 25°C)

Parameter	Symbol	Conditions	Min	Typ	Max.	Unit
Forward voltage	V_F	I_F = 45mA	—	5.6	6.0	V
Reverse current	I_R	V_R = 15 V	—	—	30	μA
Luminous intensity/Seg	I_V	I_F = 45mA	1200	2500	—	μcd
Peak wavelength	λ_P	I_F = 45mA	—	635	—	nm
Spectral line halfwidth	$\Delta\lambda$	I_F = 45mA	—	35	—	nm
Segment intensity matching				9:1		Ratio

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