

High Brightness 8.0-inch 7-Segment Numeric LED Displays

SND-8010 SND-8017

GENERAL DESCRIPTION

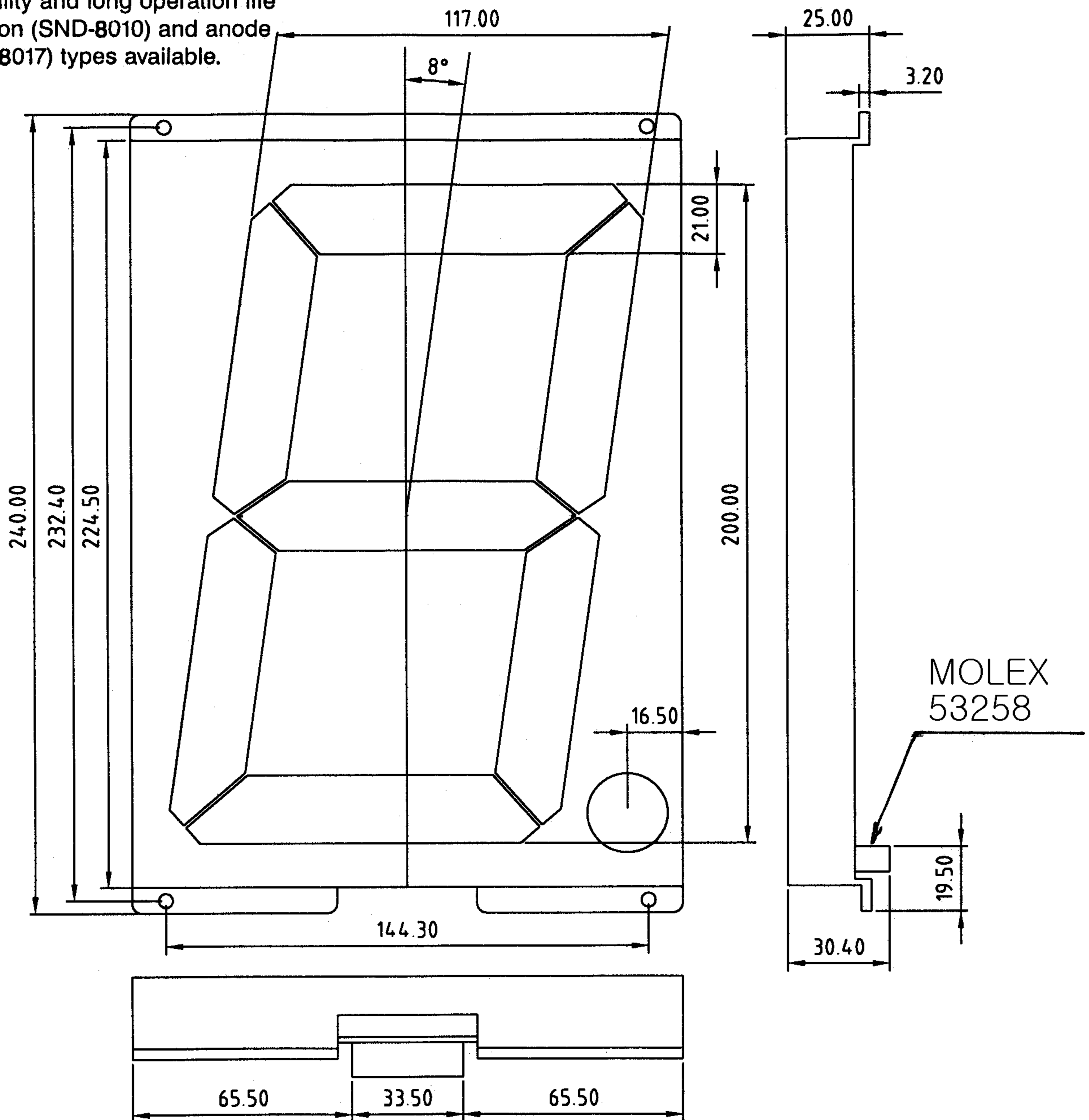
The SND-8010 and SND-8017 series are a high reliability epoxy resin molded large 7 segment numeric LED displays which character height is 8.0 inch (200mm) and available in ultra red and yellow emitting colors

FEATURES

1. High brightness with high contrast
2. Uniform brightness and wide angle viewing
3. Solid state stability and long operation life
4. Cathode-common (SND-8010) and anode common (SND-8017) types available.

PACKAGE DIMENSIONS

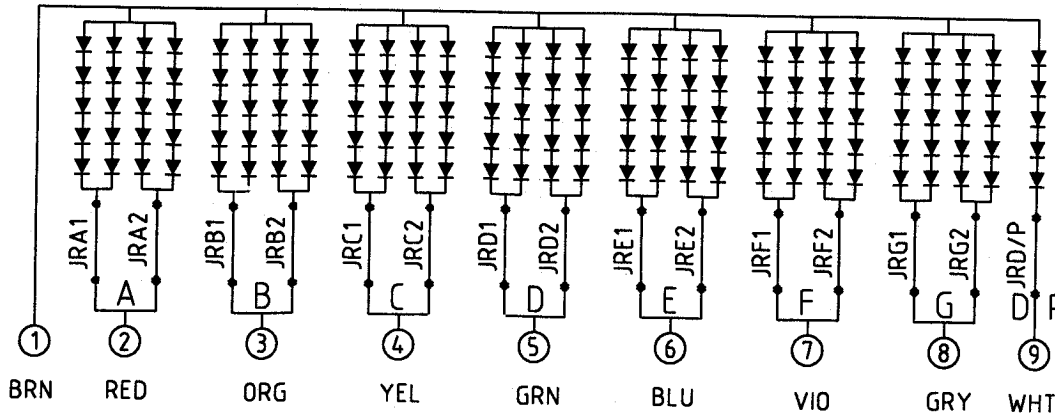
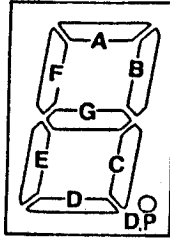
SCALE 1/2 (mm)



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PIN ARRANGEMENT
(Top View)



SND-8017 (Anode Common)

SND-8010 (Cathode Common) All diodes are reversed polarity

Red SND 8010/7UR

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Power dissipation/Total	5800	mW
Power dissipation/Seg	800	mW
Forward current	80	mA
Peak forward current	240*	mA
Reverse voltage	25	V
Operating temperature	-25 ~ +85	$^\circ\text{C}$
Storage temperature	-55 ~ +100	$^\circ\text{C}$

Electrical/Optical Characteristics ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Conditions	Min	Typ	Max.	Unit
Forward voltage/digit	V_F	$I_F = 80\text{mA}$	—	7.8	8.4	V
Reverse current/digit	I_R	$V_R = 25\text{V}$	—	—	10	μA
Luminous intensity/digit	I_v	$I_F = 80\text{mA}$	2500	—	—	μcd
Peak wavelength	λ_P	$I_F = 80\text{mA}$	—	660	—	nm
Spectral line halfwidth	$\Delta\lambda$	$I_F = 80\text{mA}$	—	20	—	nm

Yellow SND 8010/7Y

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Power dissipation/Total	5800	mW
Power dissipation/Seg	800	mW
Forward current	80	mA
Peak forward current	240*	mA
Reverse voltage	25	V
Operating temperature	-25 ~ +85	$^\circ\text{C}$
Storage temperature	-55 ~ +100	$^\circ\text{C}$

Electrical/Optical Characteristics ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Conditions	Min	Typ	Max.	Unit
Forward voltage/digit	V_F	$I_F = 80\text{mA}$	—	8.5	9.2	V
Reverse current/digit	I_R	$V_R = 25\text{V}$	—	—	10	μA
Luminous intensity/digit	I_v	$I_F = 80\text{mA}$	1500	—	—	μcd
Peak wavelength	λ_P	$I_F = 80\text{mA}$	—	590	—	nm
Spectral line halfwidth	$\Delta\lambda$	$I_F = 80\text{mA}$	—	30	—	nm

* Pulse Width 1 ms
Duty Cycle 1/5