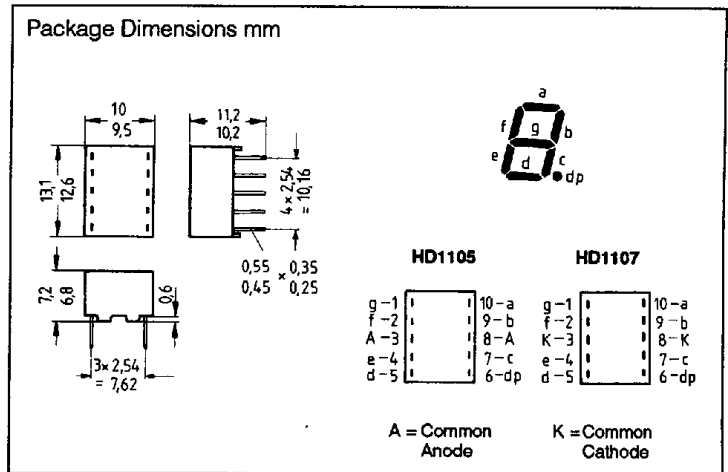
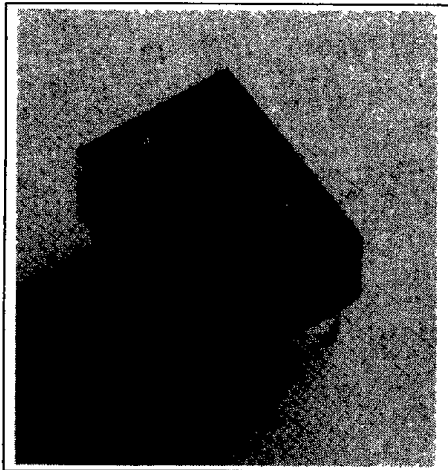


SIEMENS

RED HD1105R/1107R
 SUPER-RED HD1105O/1107O
 YELLOW HD1105Y/1107Y
 GREEN HD1105G/1107G

0.39" (10 mm) SEVEN SEGMENT NUMERIC DISPLAY



FEATURES

- Rugged Encapsulated Package
- Large 0.39 Inch (10 mm) Digit Height
- Choice of Colors
- Common Anode or Common Cathode
- Wide Viewing
- Intensity Coded for Display Uniformity

DESCRIPTION

The HD1105X/1107X are displays with 0.39" (10 mm) digits with either a common anode or common cathode and a right hand decimal point.

These displays were designed for viewing distances of up to 10 feet and can be used in electronic instruments, point-of-sale systems, clocks, and other general industrial and consumer applications. All displays have a light grey face.

Contrast enhancement filters are recommended for use with all displays.

Product

- HD1105R
- HD1107R
- HD1105O
- HD1107O
- HD1105Y
- HD1107Y
- HD1105G
- HD1107G

Color

- Red
- Red
- Super-Red
- Super-Red
- Yellow
- Yellow
- Green
- Green

Description

- Common Anode, Right Decimal
- Common Cathode, Right Decimal
- Common Anode, Right Decimal
- Common Cathode, Right Decimal
- Common Anode, Right Decimal
- Common Cathode, Right Decimal
- Common Anode, Right Decimal
- Common Cathode, Right Decimal

Maximum Ratings

Power Dissipation per Segment ¹⁾ (P _{TOT})	50 mW
Operating and Storage Temperature (T _A , T _{STG})	-40°C to +85°C
Forward Current per Segment ¹⁾ (I _F)	17.5 mA
Peak Forward Current ¹⁾ (I _F ≤ 10 μs, I _{RM})	150 mA
Reverse Voltage (V _R)	6 V
Thermal Resistance (R _{THJA})	135 K/W
Junction Temperature (T _J)	100°C

Note:
¹⁾ T_A = 45°C

See graph numbers 1, 2, 3A, 4A, 5A, 6B, 7, 8, 9, 10 on pages 25 - 27.

T-41-33

Characteristics ($T_A=25^\circ\text{C}$)

Parameter	Symbol	HD1105/7R Red	HD1105/7O Super-Red	HD1105/7Y Yellow	HD1105/7G Green	Unit
Wavelength at Peak						
Emission ($I_F=10\text{ mA}$)	λ_{PEAK}	660	635	586	565	nm
Dominant Wavelength	λ_{DOM}	645	628	590	567	nm
Spectral Bandwidth @ 50% I_F ($I_F=10\text{ mA}$)	$\Delta\lambda$	35	45	45	25	nm
Forward Voltage ($I_F=10\text{ mA}$)	V_F	1.6 (≤ 2.0)	2.0 (≤ 2.6)	2.0 (≤ 2.6)	2.0 (≤ 2.6)	V
Reverse Current per Segment ($V_R=6\text{ V}$)	I_R	0.01 (≤ 10)	0.01 (≤ 10)	0.01 (≤ 10)	0.01 (≤ 10)	μA
Capacitance per Segment ($V_R=0\text{ V}$, $f=1\text{ MHz}$)	C_O	25	12	10	15	pF
Rise Time (typ.)	t_r	120	300	300	450	ns
Fall Time (typ.)	t_f	50	150	150	200	ns
Luminous Intensity per Segment ¹⁾ ($I_F=10\text{ mA}$)	μcd	600	2300	900	1200	μcd

Note:

1 Deviation of the absolute values within one digit $\frac{I_{V\text{MAX}}}{I_{V\text{MIN}}} \leq 2$

Num. Displays
Bar Graphs
Light Bars