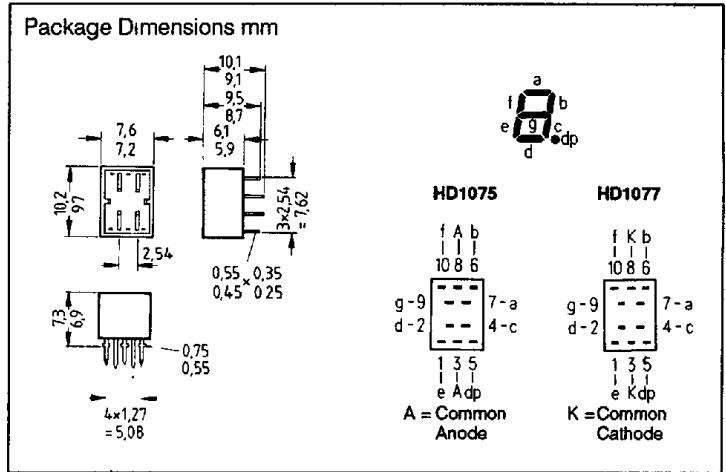
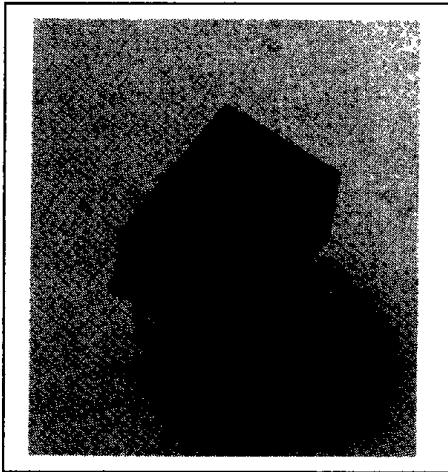


**SIEMENS**

**RED HD1075R/1077R**  
**SUPER-RED HD1075O/1077O**  
**YELLOW HD1075Y/1077Y**  
**GREEN HD1075G/1077G**

**0.28" (7 mm) SEVEN SEGMENT NUMERIC DISPLAY**

T-41-33



**FEATURES**

- Rugged Encapsulated Package
- 0.28 Inch (7 mm) Digit Height
- Choice of Colors
- Common Anode or Common Cathode
- Wide Viewing
- Intensity Coded for Display Uniformity

**Product**

- HD1075R
- HD1077R
- HD1075O
- HD1077O
- HD1075Y
- HD1077Y
- HD1075G
- HD1077G

**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

**DESCRIPTION**

The HD1075X/1077X are displays with 0.28 inch (7 mm) digits with either a common anode or common cathode and a right hand decimal point.

These displays have good viewing 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.

**Maximum Ratings**

Power Dissipation per Segment <sup>1)</sup> (P <sub>tot</sub> )	... ..	40 mW
Operating and Storage Temperature (T <sub>A</sub> , T <sub>sto</sub> )	... ..	-40°C to +85°C
Forward Current per Segment <sup>1)</sup> (I <sub>F</sub> )	... ..	15 mA
Surge Forward Current per segment <sup>1)</sup> (I <sub>F</sub> ≤ 10 μs, I <sub>RM</sub> )	... ..	150 mA
Reverse Voltage (V <sub>R</sub> )	... ..	6 V
Thermal Resistance (R <sub>THJA</sub> )	... ..	170 K/W
Junction Temperature (T <sub>J</sub> )	... ..	100°C

**Note:**

<sup>1)</sup> T<sub>A</sub>=45°C

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

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

Parameter	Symbol	HD1075/7R Red	HD1075/7O Super-Red	HD1075/7Y Yellow	HD1075/7G Green	Unit
Wavelength at Peak						
Emission ( $I_F=10\text{ mA}$ )	$\lambda_{\text{PEAK}}$	660	635	586	565	nm
Dominant Wavelength	$\lambda_{\text{DOM}}$	645	628	590	567	nm
Spectral Bandwidth @ 50% $I_V$ ( $I_F=10\text{ mA}$ )	$\Delta\lambda$	35	45	45	25	nm
Forward Voltage ( $I_F=10\text{ mA}$ )	$V_F$	1.6 ( $\leq 2.0$ )	2.0 ( $\leq 2.6$ )	2.0 ( $\leq 2.6$ )	2.0 ( $\leq 2.6$ )	V
Reverse Current per Segment ( $V_R=6\text{ V}$ )	$I_R$	0.01 ( $\leq 10$ )	0.01 ( $\leq 10$ )	0.01 ( $\leq 10$ )	0.01 ( $\leq 10$ )	$\mu\text{A}$
Capacitance per Segment ( $V_R=0\text{ V}$ , $f=1\text{ MHz}$ )	$C_0$	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 <sup>1)</sup> ( $I_F=10\text{ mA}$ )	$\mu\text{cd}$	450	1800	600	900	$\mu\text{cd}$

**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