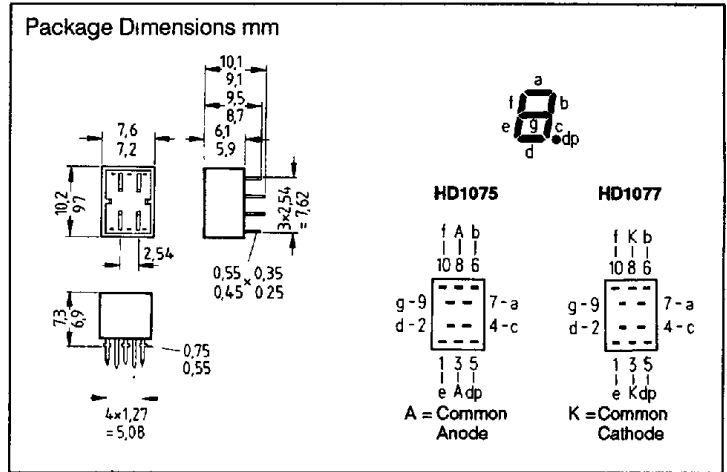
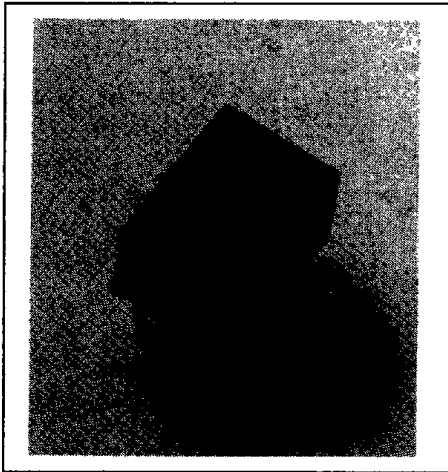


SIEMENS

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

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.

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

Maximum Ratings

Power Dissipation per Segment ¹⁾ (P _{tot})	40 mW
Operating and Storage Temperature (T _A , T _{sto})	-40°C to +85°C
Forward Current per Segment ¹⁾ (I _F)	15 mA
Surge Forward Current per segment ¹⁾ (I _F ≤ 10 μs, I _{RM})	150 mA
Reverse Voltage (V _R)	6 V
Thermal Resistance (R _{THJA})	170 K/W
Junction Temperature (T _J)	100°C

Note:
 1 T_A=45°C

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

T-41-33

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 ($I_F=10\text{ mA}$)	λ_{PEAK}	660	635	586	565	nm
Dominant Wavelength	λ_{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 (≤ 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_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 ¹⁾ ($I_F=10\text{ mA}$)	μcd	450	1800	600	900	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