DMC-40457

40 Characters×4 Lines
Display Fonts 5×8 Dots
1/16 Duty Drive

ABSOLUTE MAXIMUM RATINGS

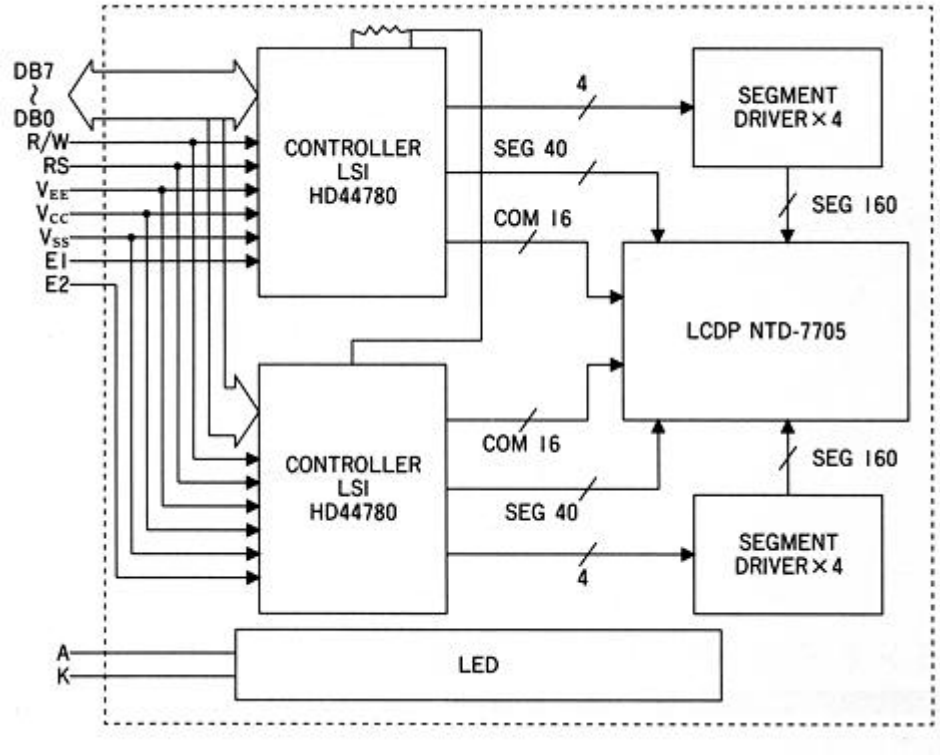
Item	Symbol	Test Condition	Standard Value		Unit
			min.	max.	
Supply Voltage for Logic	$V_{CC}-V_{SS}$	——	−0.3	7	V
Supply Voltage for LCD Drive	$V_{CC}-V_{EE}$	——	V_{CC}−13.5	V_{CC}+0.3	V
Input Voltage	V_I	——	−0.3	V_{CC}+0.3	V
LED Forward Current	I_F	——	——	480	mA
LED Reverse Voltage	V_R	——	——	8	V
LED Power Loss	P_D	——	——	4.1	W
Operating Temperature	Topr	——	0	+50	°C
Storage Temperature	Tstg	——	−20	+70	°C

ELECTRICAL CHARACTERISTICS

Item	Symbol	Test Condition	Standard Value			Unit
			min.	typ.	max.	
Input "High" Voltage	V_{IH}	——	2.2	——	V_{CC}	V
Input "Low" Voltage	V_{IL}	——	——	——	0.6	V
Output "High" Voltage	V_{OH}	$-I_{OH}$=0.205mA	2.4	——	V_{CC}	V
Output "Low" Voltage	V_{OL}	I_{OL}=1.2mA	——	——	0.4	V
LED Forward Voltage	V_F	I_F=350mA	3.5	3.9	4.3	V
Brightness *1	L	I_F=350mA	30	35	——	cd/m²
Supply Current	I_{CC}	V_{CC}=5.0V	——	4.0	10.0	mA

※V_{CC}=5.0V±5%、Ta=25°C *NOTE 1)Measured at the bare LED backlight unit.

BLOCK DIAGRAM



PHOTO

PIN ASSIGNMENT

Pin No.	Symbol	Level	Function
1	DB7	H/L	Data Bus Line
2	DB6	H/L	
3	DB5	H/L	
4	DB4	H/L	
5	DB3	H/L	8-bit transfar……Data Bus Line 4-bit transfar……No Connection
6	DB2	H/L	
7	DB1	H/L	
8	DB0	H/L	
9	EI	H、H→L	Enable Signal (No pull-up resistor)
10	R/W	H/L	H:READ, L:WRITE
11	RS	H/L	Registor Select Signal
12	V_{EE}	——	Power Supply for LCD Drive
13	V_{SS}	——	Power Supply (0V, GND)
14	V_{CC}	——	Power Supply (+5V)
15	E2	H、H→L	Enable Signal (No pull-up resistor)
16	NC	——	No Connection
17	K	——	Power Supply for LED
18	A	——	Power Supply for LED

DIMENSION