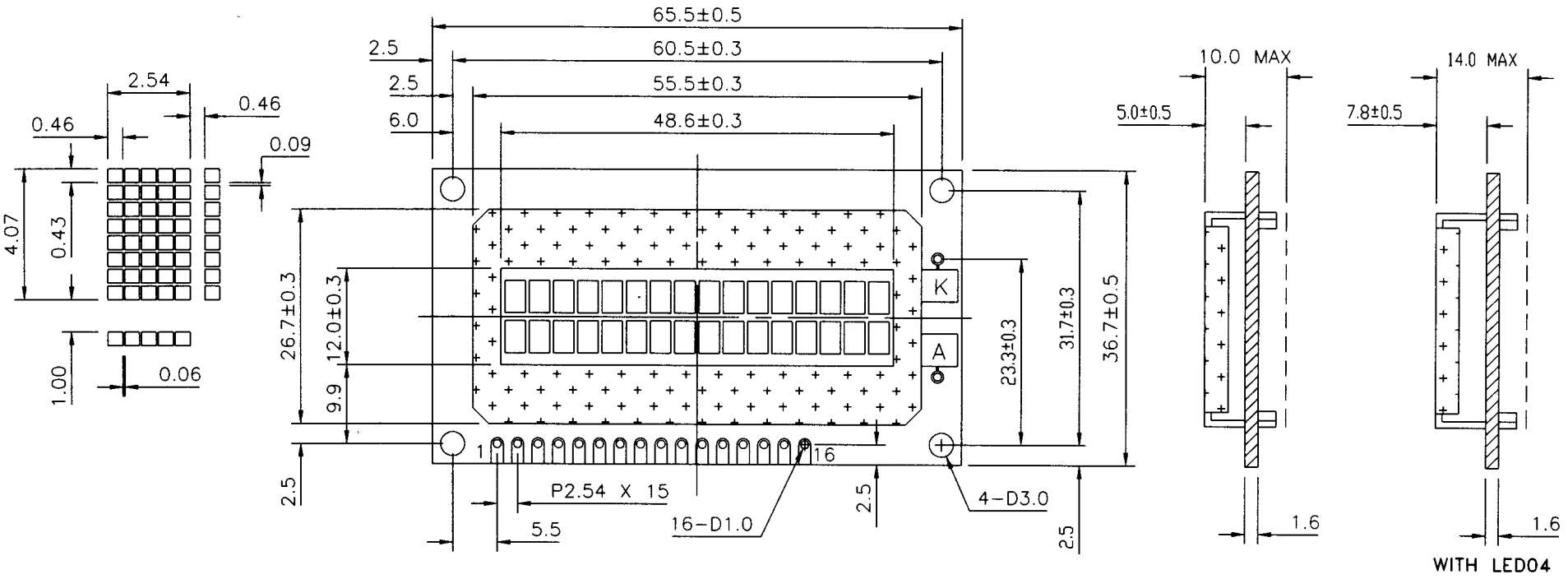
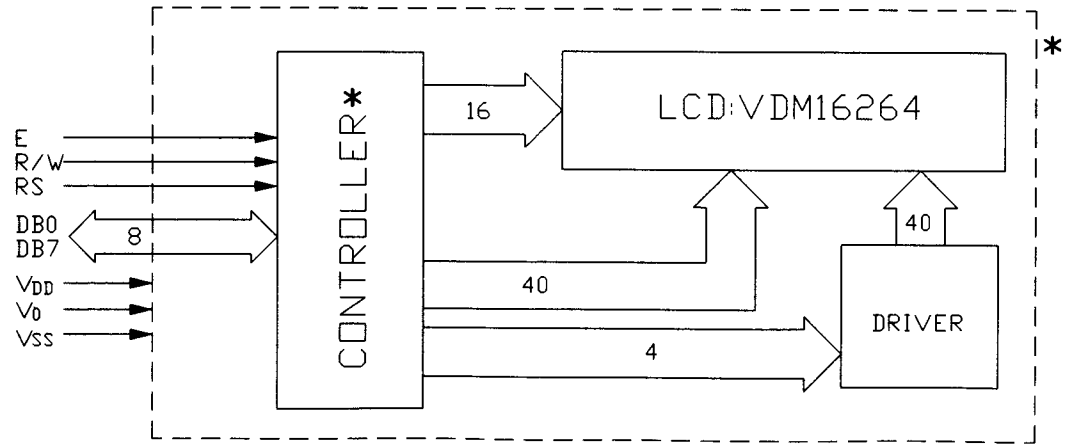
CAT# LCD-64 Varitronix Part # MDLS16264-LV-Silver

16 CHARACTERS X 2 LINES CHARACTER SIZE: 2.54W X 3.55H mm (5 X 7 DOTS) 2.54W X 4.07H mm (5 X 8 DOTS)	**MDL(S)-16264**



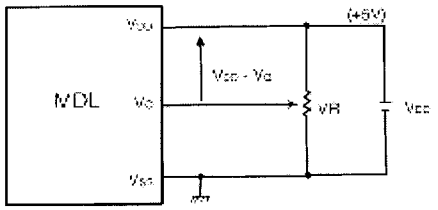
14 PIN CONNECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	A	K
16 PIN CONNECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	VSS	VDD	V0	RS	R/W	E	DB0	DB1	DB2	DB3	DB4	DB5	DB6	DB7	LED(+)	LED(-)



* HD44780 OR EQUIVALENT

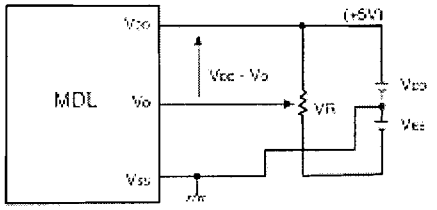
ITEM		VALUE	
		MIN	MAX
Power supply for controller	(V_{DD} - V_{SS})	0	7.0V
Power supply for LCD driver	(V_{DD} - V_0)	0	13.5V
Input voltage for data and control signals	¡@	V_{SS}	V_{DD}
Operating temperature	(-LV model)	-5°C	+50°C
Storage temperature	(-LV model)	-20°C	+60°C

POWER SUPPLY FOR SINGLE SUPPLY VOLTAGE TYPES



Vdd - Vo: LCD driving voltage
VR: 10kΩ ~ 20kΩ

POWER SUPPLY FOR DUAL SUPPLY VOLTAGE TYPES



VDD - Vo: LCD driving voltage
VR: 10kΩ ~ 20kΩ

SYMBOL	I/O	FUNCTION
V_{SS}		Ground
V_{DD}		+5 Volt Power Supply
V_O		Negative voltage supply for LCD driver (For non LV models)
RS	I	Register Select: H for data; L for instruction code
R/W	I	Read/Write: H-read from module; L-write into module
E		Enable (No connection for MDL-40466)
DB0 DB1 DB2 DB3	I/O	Data bus lines used only in 8 bit transfer
DB4 DB5 DB6	I/O	Data bus line used for both 4 and 8 bit transfer
DB7	I/O	Data bus lines used for both 4 and 8 bit transfer Also serves as Busy Flag for internal operations
E1	I	Enable for upper two rows
E2	I	Enable for lower two rows
A	¡@	+ve supply input for backlight
K		-ve supply input for backlight