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240 Columns x 64 Rows

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WHIP! Image next to part no. indicates cad file.

 Indicates an Opto Express part.

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Lumex drawings are in PDF format. If you don't have Adobe Acrobat, click on this icon to

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Lumex Part Number	Overall Size with LED Backlight (WxHxD)	Overall Size without Backlight (WxHxD)	View Area (WxH)	Dot Pitch (WxH)	Dot Size	Duty
LCM-S24064GSF WHIP!	180x65x14.0		133x40	0.53x0.53	0.49x0.49	1/64
LCM-S24064GSR WHIP!		180x65x11.5	133x40	0.53x0.53	0.49x0.49	1/64

Part Number Suffix Table

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- DSR = STN, Reflective
- DSF = STN, Transflective, (With Backlight)

Absolute Maximum Ratings

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Item	Symbol	Test Condition	Standard Value		Unit
			Min	Max	
Supply Voltage for Logic	$V_{DD}-V_{SS}$	Ta=25°C	4.75	5.25	V
Supply Voltage for LCD Drive	$V_{DD}-V_o$	-	6.75	10.25	V

Output Voltage	V_o	Ta=25°C	V_{SS}	V_{DD}	V
Operating Temperature	T_{opr}	LCM-S	0	50	°C
		LCM-H	-20	70	°C
Storage Temperature	T_{stg}	LCM-S	-20	70	°C
		LCM-H	-30	85	°C

Technical Information

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- You can find comprehensive technical information in the [Lumex Tech Notes](#) section. Click [here](#) to get there!

Electrical Characteristics

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Item		Symbol	Condition	Standard Value			Unit
				Min.	Typ.	Max.	
Supply Voltage for Logic		$V_{DD}-V_{SS}$	-	4.75	5.0	5.25	V
Supply Current for Logic		I_{DD}	$V_{DD}=5V$	-	9.0	-	mA
Input Voltage **	High	V_{IH}	-	2.2	-	-	V
	Low	V_{IL}	-	0	-	0.8	V
Output Voltage ***	High	V_{OH}	$I_{OH}=3mA$	0.3	-	V_{DD}	V
	Low	V_{OL}	$I_{OL}=3mA$	0	-	0.3	V
LED Backlight *	Voltage	V_f	-	-	-	-	V
	Current	I_f	-	-	-	-	mA
	Power Consumption	PD	-	-	-	-	mW
	Luminous	L	-	-	-	-	cd/m ²
	Color	-	-	-	-	-	nm
* Only Applies to Modules with Backlight ** Applied to terminals DB0-DB7 *** Applied to terminals E, A ₀ ,DB0-DB7		$V_{DD}=4.5V$ to $5.5V$ $T_A=25^{\circ}C$					

Options

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- High Temperature Module Available

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