



RAYSTAR

RAYSTAR Optronics, Inc.  
曜凌光電股份有限公司



# 曜凌光電股份有限公司 Raystar Optronics, Inc.

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## RX160160A

### General Specification

The Features is described as follow:

- Module dimension: 83.8 x 76.5 x 8.365 (max.) mm
- View area: 60.0 x60.0 mm
- Active area: 54.380 x 54.380 mm
- Number of dots: 160\*160dots
- Dot size: 0.32 x 0.32 mm
- Dot pitch: 0.34 x 0.34 mm
- Duty: 1/160
- Backlight Type: LED
- IC: UC1698U
- Interface: 80 series

## Interface Pin Function

Pin No.	Symbol	Level	Description
1	VSS	—	Ground
2	AO	H/L	Date type select H:Data L:Instruction
3	WR	L	Write Operation of the host interface
4	RD	L	Read Operation of the host interface
5	XCS	L	Chip select PIN
6	RST	L	Reset signal
7	VDD	—	Power supply for Logic
8	DB0	H/L	Data bus line
9	DB1	H/L	Data bus line
10	DB2	H/L	Data bus line
11	DB3	H/L	Data bus line
12	DB4	H/L	Data bus line
13	DB5	H/L	Data bus line
14	DB6	H/L	Data bus line
15	DB7	H/L	Data bus line
16	LED-	—	Power supply for backlight negative
17	NC	—	No connection
18	LED+	—	Power supply for backlight position



## Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	$T_{OP}$	-20	—	+70	°C
Storage Temperature	$T_{ST}$	-30	—	+80	°C
Supply voltage for Logic	$V_{DD}-V_{SS}$	-0.3	—	4.0	V
LCD Driver Voltage	$V_{LCD}$	-0.3	—	+19.8	V
Input signal	$V_{IN}$	-0.4	—	$V_{DD}+0.5$	V

## Electrical Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For Logic	$V_{DD}-V_{SS}$	—	3.0	3.3	3.6	V
Supply Voltage For LCM	$V_o-V_{SS}$	$T_a=-20^{\circ}C$	—	—	—	V
		$T_a=25^{\circ}C$	16.2	16.5	16.8	V
		$T_a=70^{\circ}C$	—	—	—	V
Input High Volt.	$V_{IH}$	—	$0.8V_{DD}$	—	$V_{DD}$	V
Input Low Volt.	$V_{IL}$	—	—	—	$0.2V_{DD}$	V
Output High Volt.	$V_{OH}$	—	$0.8V_{DD}$	—	$V_{DD}$	V
Output Low Volt.	$V_{OL}$	—	—	—	$0.2V_{DD}$	V
Supply Current (No include LED Backlight)	$I_{DD}$	$V_{DD}=3.3V$	—	3.3	—	mA