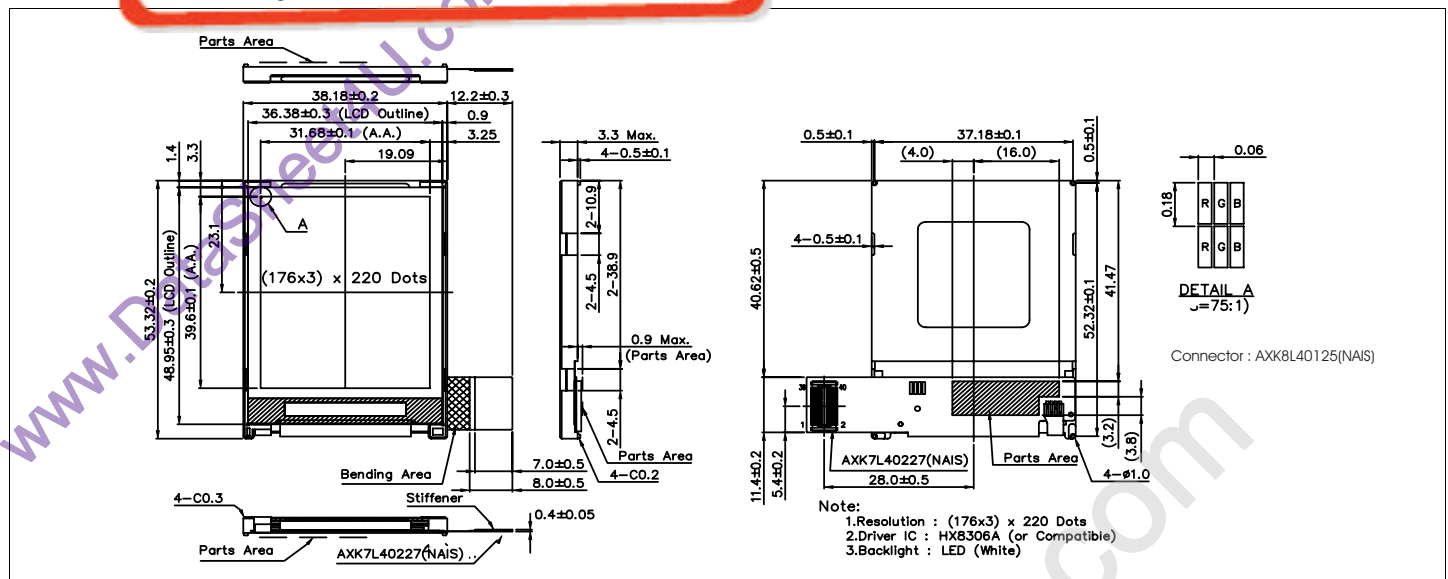




Features

Viewing Angle(horizontal).....90 degrees
 High Contrast.....150:1
 Hfast Response Time40 mS
 Built-in DC-DC Converter
 Built-in Controller.....HCD667B89RBP

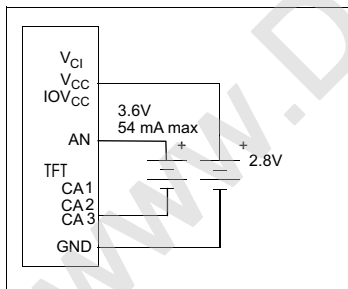
Physical Data

Module Size..... $38.18W \times 53.32H \times 4.2T$ mm
 Viewing Area Size..... $31.68W \times 39.6H$ mm
 Pitch Size..... $0.06W \times 0.18H$ mm
 Dot Size..... $0.05W \times 0.17H$ mm
 Weight.....10g

Electrical Characteristics (VDD=5.0±0.25V 25°C)

PARAMETER	SYM	CONDITION	MIN	TYP	MAX	UNIT
OPERATING VOLTAGE	V_{CC}	-	2.5	2.8	3.3	V
OPERATING VOLTAGE	V_{CI}	-	1.8	2.8	3.3	V
INPUT HIGH VOLTAGE	V_{IH}	-	$0.7V_{CC}$	-	V_{CC}	V
INPUT LOW VOLTAGE	V_{IL}	-	-0.3	-	0.2V	V
OPERATING CURRENT	I_{DD}	All pixels on	-	11	17	mA
LED FORWARD VOLTAGE	V_F	at $I_f = 54$ mA	-	3.6	4.0	V
LED FORWARD CURRENT	I_F	at $V_f = 4.0V$	-	-	54	mA
BRIGHTNESS	L	Average	120	140	-	cd/m ²

Power Supply



Absolute Maximum Ratings

PARAMETER	SYMBOL	MIN	MAX	UNIT
SUPPLY VOLTAGE	V_{CC}	-0.3	4.6	V
SUPPLY VOLTAGE	V_{CI}	-0.3	4.6	V
INPUT VOLTAGE	V_{IN}	-0.3	V_{CC}	V
OPERATING TEMPERATURE	T_{OP}	-20	70	°C
STORAGE TEMPERATURE	T_{STG}	-40	80	°C

Pin Connections

PIN NO.	SYMBOL	FUNCTION
1	GND	Ground Pin
2	IM0	H/L Interface Mode Select
3	IM3	H/L Interface Mode Select
4	RESET	Reset Input , Active Low
5-22	PD17-PD0	18 bit RGB Data Bus (Instructions & Data)
23	RD	Read Strobe
24	WR	Write Strobe
25	RS	H : Index/Status , L : Control
26	CS	Chip Select
27	VCC	Power Supply for Logic
28	I/O VCC	Interface I/O Power
29	GND	Ground Pin
30	VCI	Power Supply for Analog Circuit
31	GND	Ground Pin
32-35	NC	No Connection
36	AN	Power Supply for LED Backlight
37	CA1	GND for LED1 Backlight
38	CA2	GND for LED2 Backlight
39	CA3	GND for LED3 Backlight
40	NC	No Connection