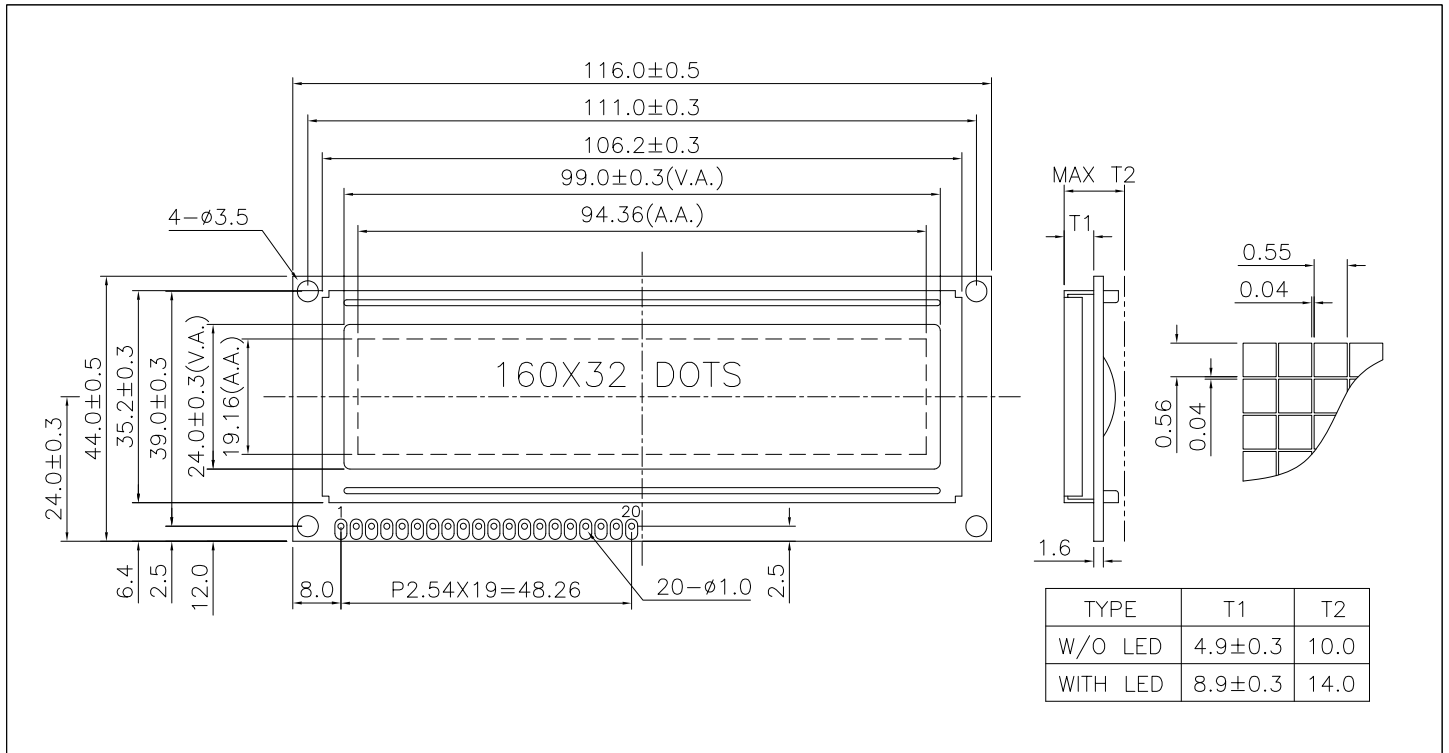


# LG160323-LY 160 x 32 dots + yellow green led backlight



## ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage(Logic)	$V_{DD} - V_{SS}$	-0.3	5.5	V
Supply Voltage(LCD)	$V_o - V_{SS}$	-0.3	7.0	V
Input Voltage	$V_i$	-0.3	$V_{DD} + 0.3$	V
Operating Temp.	$T_{opr}$	-20	70	°C
Storage Temp.	$T_{stg}$	-30	80	°C

## MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size ( W x H x T )	116.0 x 44.0 x 10.0/14.0	mm
Viewing Area ( W x H )	99.0 x 24.0	mm
Dot Pitch ( W x H )	0.59 x 0.60	mm
Dot Size( W x H )	0.55 x 0.56	mm
Weight (Reflective/LED)	Approx. 50 / 70	g

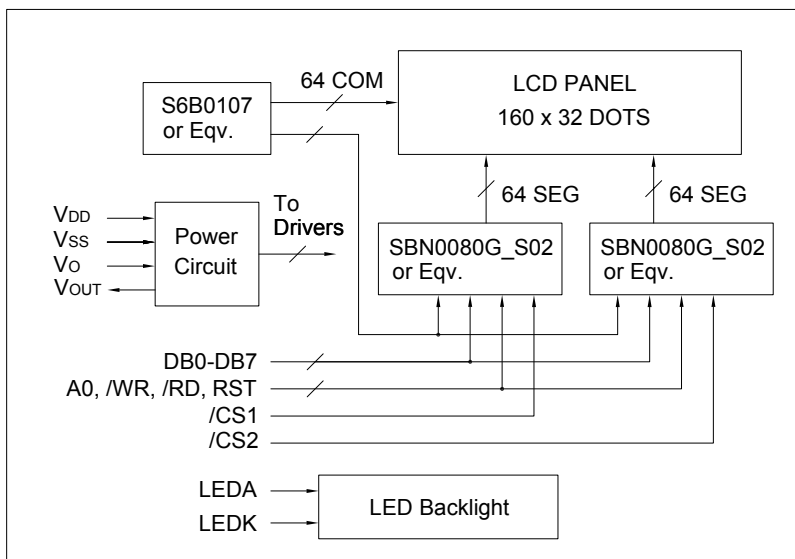
## ELECTRICAL CHARACTERISTICS ( $V_{DD}=5V \pm 0.25V$ )

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Input High Voltage	$V_{IH}$	--	0.7 $V_{DD}$	--	$V_{DD}$	V
Input Low Voltage	$V_{IL}$	--	0	--	0.25 $V_{DD}$	V
Output High Voltage	$V_{OH}$	--	$V_{DD}-0.3$	--	$V_{DD}$	V
Output Low Voltage	$V_{OL}$	--	0	--	0.3	V
Supply Current	$I_{DD}$	$V_{DD} = 5.0V$	--	4.5	6.0	mA
LCD Driving Voltage	$V_{DD} - V_o$	$T_a=25^\circ C$	--	7.2	--	V

## PIN CONNECTIONS

Pin	Symbol	Level	Function
1	A0	H/L	H : Data L : Instruction code
2	/CS2	L	Chip selection for IC2. Active "L".
3	/CS1	L	Chip selection for IC1. Active "L".
4	/RD(E)	H/L	/RD for 80 MPU, E for 68 MPU
5	/WR(R/W)	H/L	/WR for 80 MPU, R/W for 68 MPU
6	$V_{DD}$	+5V	Power supply for logic
7	$V_{SS}$	0V	GND
8	DB0	H/L	Data bus
9	DB1	H/L	
10	DB2	H/L	
11	DB3	H/L	
12	DB4	H/L	
13	DB5	H/L	
14	DB6	H/L	
15	DB7	H/L	
16	RST	H/L	Reset. H→L:80 MPU, L→H:68 MPU
17	$V_o$	--	Operating voltage for LCD
18	$V_{OUT}$	-5V	Output voltage for LCD driving
19	LEDA	+5V	Power supply for LED backlight
20	LEDK	0V	

## BLOCK DIAGRAM



## LED BACKLIGHT SPECIFICATIONS ( $T_a=25^\circ C$ )

Item	Symbol	Typ.	Max.	Unit
Forward Voltage	$V_f$	4.1	4.3	V
Forward Current	$I_f$	240	--	mA
Emission Wave Length	$\lambda_p$	568	--	nm