OptoSupply
Light It Up

0.32 Inch Single Digit Display

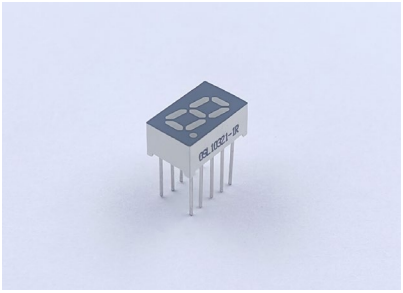
OSL10321-IX (Common Anode type)

OSL10321-LX (Common Cathode type)

■ Features

- 0.32 Inch Single Digit Display
- Long lifetime operation
- IC compatible
- Low power dissipation
- Black surface & white segment or dot
- Number of pins :10

■ Photo



■ Applications

- Counting device
- Clock

■ Absolute Maximum Rating (Ta=25℃)

Item	Symbol	Value		Unit
		YG/Y/O/OA/R/RA	W/B/PG	
DC Forward Current	I_F	20	20	mA
Pulse Forward Current#	I_{FP}	100	100	mA
Reverse Voltage	V_R	5	5	V
Power Dissipation	P_t	44	66	mW
Operating Temperature	Topr	-30 ~ +70		℃
Storage Temperature	Tstg	-40~ +85		℃
Lead Soldering Temperature(1.6mm from seating plane)	Tsol	260℃/5sec		℃

#Pulse width Max.10ms Duty ratio max 1/10

■ Electrical -Optical Characteristics (Ta=25℃)

Part Number	Color			V_F (V)			I_R(μA)	Iv(mcd)			λD(nm)		
				Min.	Typ.	Max.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.
				I_F=20mA			V_R=5V	I_F=20mA					
OSL10321-IW(LW)	White	W		-	3.1	3.6	20	-	65	-	X:0.27 Y:0.28		
OSL10321-IB(LB)	Blue	B		-	3.1	3.6	20	-	50	-	460	465	475
OSL10321-IG(LG)	Pure Green	PG		-	3.1	3.6	20	-	200	-	515	525	530
OSL10321-IYG(LYG)	Yellow Green	YG		-	2.2	2.6	20	-	20	-	565	571	575
OSL10321-IY(LY)	Yellow	Y		-	2.1	2.5	20	-	60	-	585	590	595
OSL10321-IO(LO)	Orange	O		-	2.1	2.5	20	-	70	-	600	605	610
OSL10321-IOA(LOA)	High Orange	OA		-	2.1	2.5	10	-	200	-	600	605	610
OSL10321-IR(LR)	Red	R		-	2.1	2.5	20	-	30	-	625	630	640
OSL10321-IRA(LRA)	High Red	RA		-	2.1	2.5	20	-	100	-	620	625	630

*1 Tolerance of measurements of chromaticity coordinates is ±10%
*2 Tolerance of measurements of dominant wavelength is ±1nm
*3 Tolerance of measurements of luminous intensity is ±15%
*4 Tolerance of measurements of forward voltage is ±0.1V

0.32 Inch Single Digit Display
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OSL10321-LX (Common Cathode type)

■ Package Dimensions and Pin Function

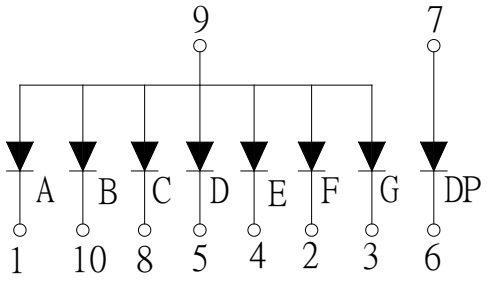
OSL10321-I X

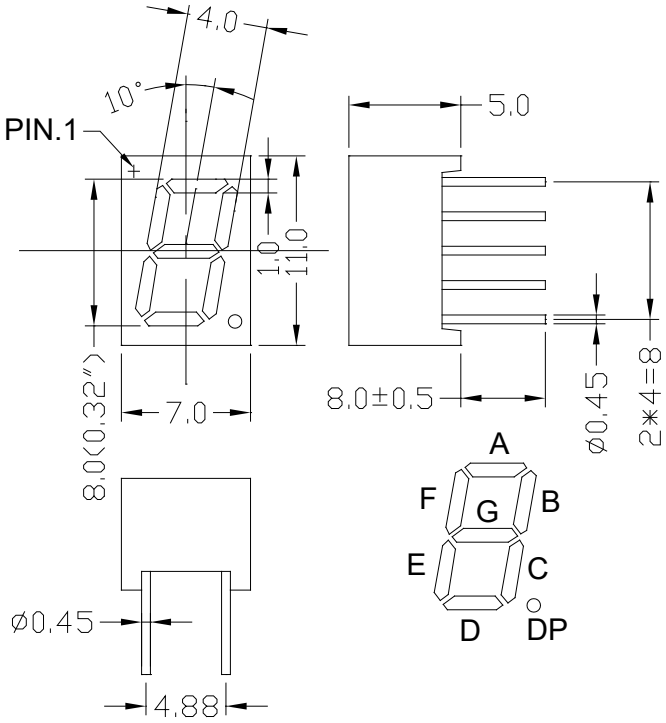
(Common Anode type)

Note:

1,Unit : mm(Tolerance:±0.25mm unless otherwise noted)

2, The slope angle of any PIN may be±5.0°Max





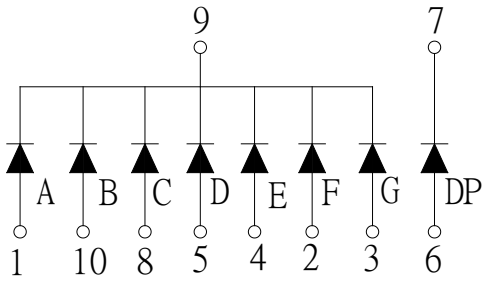
OSL10321-L X

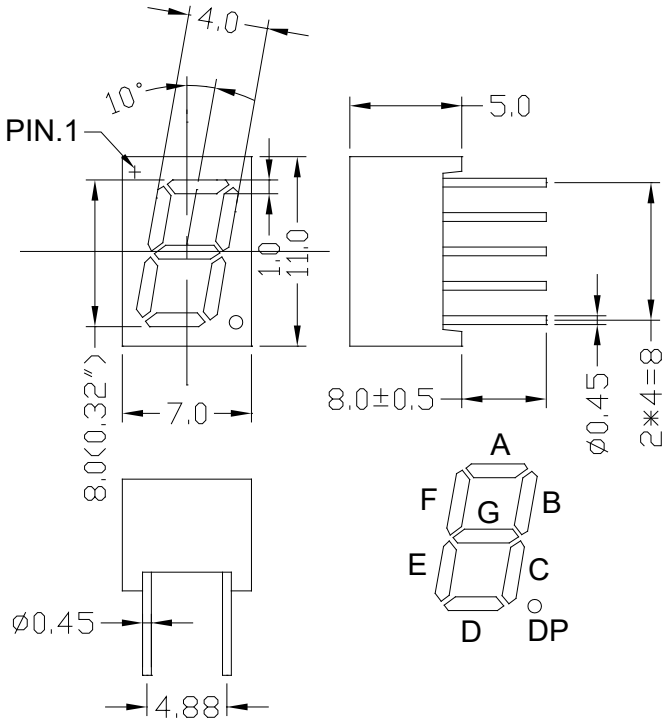
(Common Cathode type)

Note:

1,Unit : mm(Tolerance:±0.25mm unless otherwise noted)

2, The slope angle of any PIN may be±5.0°Max





LAMP APPLICATION (PB FREE SOLDERJING)

Apply to Display (DIP) SERIES.

Description:

(1) Manual soldering (Solder Iron)

(1.1) Temperature at tip of the iron:350℃ Max.

(1.2) It's banned to load any stress on the resin during soldering.

(1.3) Soldering time: 3sec.Max.(one time only.)

(1.4) Leave 3mm of minimum distance from the base of the epoxy.

(2) Dip Soldering (Wave Soldering-Solder Bath)

(2.1) Leave 3mm of minimum distance from the base of the epoxy.
Soldering beyond the base of the tie bar (stand off) is recommended.

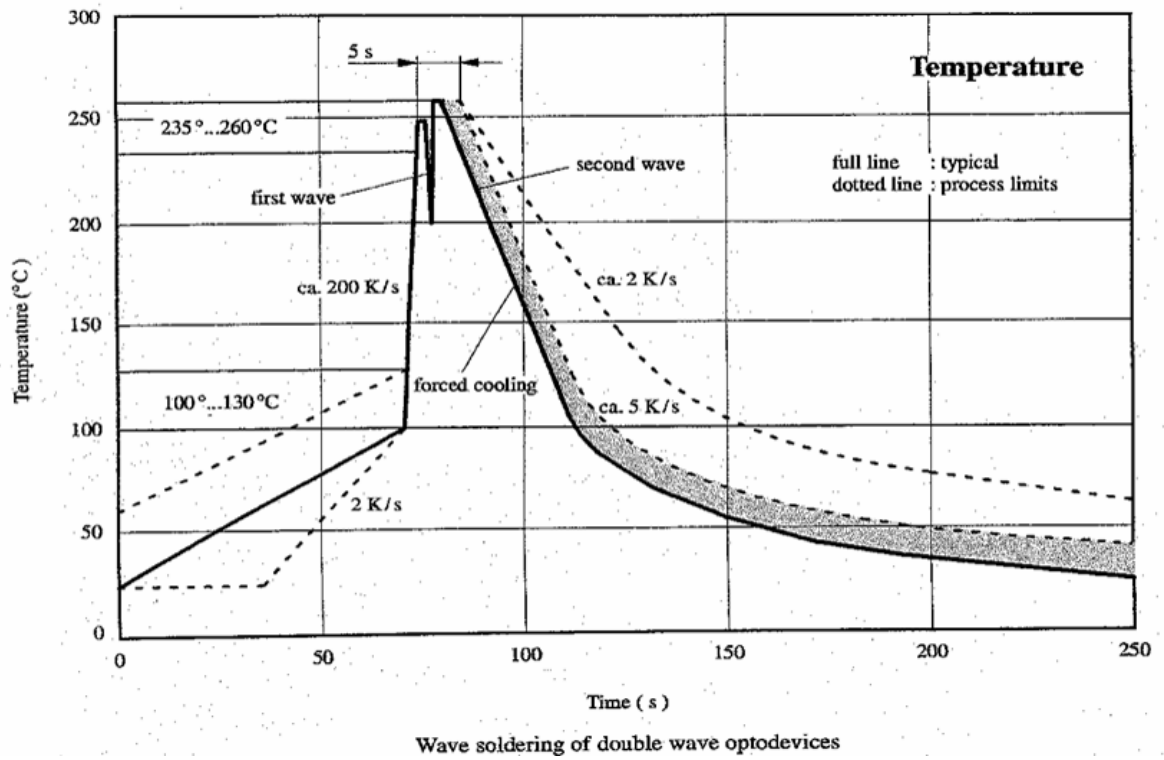
(2.2) When soldering, do not put stress on the Display during heating.

(2.3) Cutting the lead frames at high temperatures may cause LED failure.

(2.4) Never take next process until the component is cooled down to room temperature after reflow.

(2.5) After soldering, do not warp the circuit board.

(2.6) The recommended dip soldering profile is the following.



Wave soldering of double wave optodevices