



LIGITEK

SINGLE DIGIT LED DISPLAY (0.39 Inch)

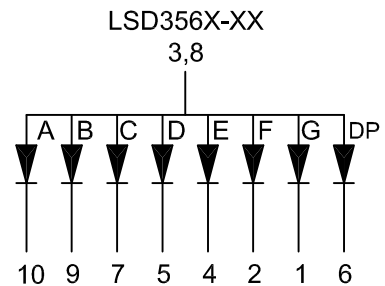
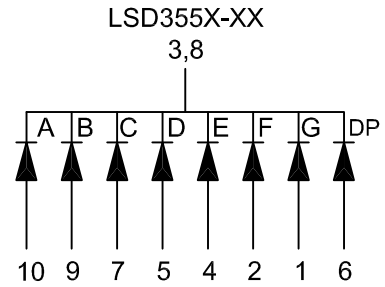
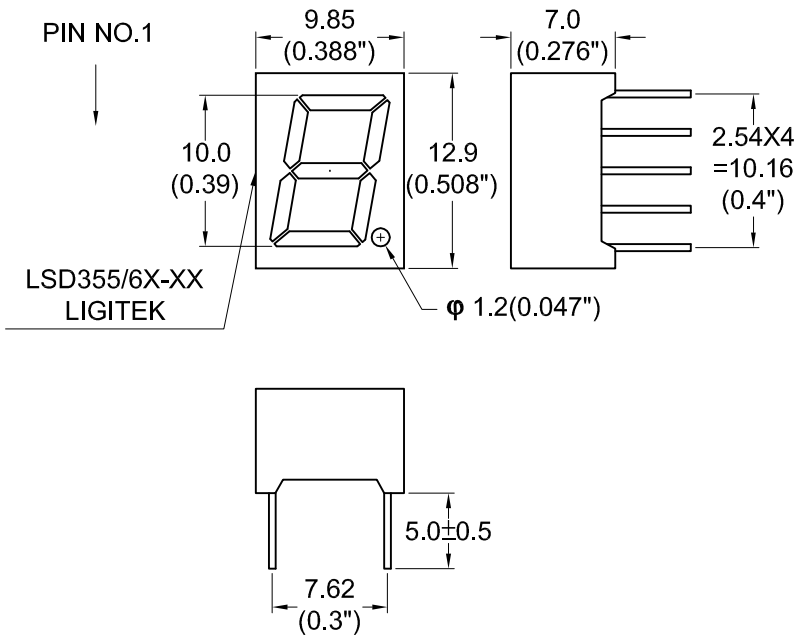
LSD355X/6X

SERIES

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PACKAGE DIMENSION

INTERNAL CIRCUIT DIAGRAM



NOTE:1.All Dimension Are In Millimeters And (Inch)
Tolerance Is $\pm 0.25(0.01)$ " unless Otherwise Noted
2.Specifications are subject to change without notice.

▪ Connection To Electrical Schematic

Electrical connection

PIN NO.	LSD355X-XX	PIN NO.	LSD356X-XX
1	Anode G	1	Cathode G
2	Anode F	2	Cathode F
3	Common Cathode	3	Common Anode
4	Anode E	4	Cathode E
5	Anode D	5	Cathode D
6	Anode DP	6	Cathode DP
7	Anode C	7	Cathode C
8	Common Cathode	8	Common Anode
9	Anode B	9	Cathode B
10	Anode A	10	Cathode A

• Part Selection And Application Information(Ratings At 25°C Ambient)

PART NO	CHIP		common cathode or anode	λ_p (nm)	$\Delta\lambda$ (nm)	Electrial					IV-M
	material	emitted				Vf(v)			Iv(mcd)		
						Min	Typ	Max	Min	Typ	
LSD3556-XX	GaAlAs	Red	Common Cathode	660	20	1.5	1.7	2.4	6.1	10.5	2:1
LSD3555-XX	GaAlAs	Red		660	20	1.5	1.7	2.4	4.0	7.0	2:1
LSD3551-XX	GaP	Red		697	90	1.7	2.1	2.8	0.5	0.8	2:1
LSD3552-XX	GaP	Green		565	30	1.7	2.1	2.8	1.75	3.5	2:1
LSD3553-XX	GaAsP/GaP	Yellow		585	35	1.7	2.0	2.8	1.0	2.3	2:1
LSD3554-XX	GaAsP/GaP	Orange		635	45	1.7	2.0	2.8	1.75	4.0	2:1
LSD3566-XX	GaAlAs	Red	Common Anode	660	20	1.5	1.7	2.4	6.1	10.5	2:1
LSD3565-XX	GaAlAs	Red		660	20	1.5	1.7	2.4	4.0	7.0	2:1
LSD3561-XX	GaP	Red		697	90	1.7	2.1	2.8	0.5	0.8	2:1
LSD3562-XX	GaP	Green		565	30	1.7	2.1	2.8	1.75	3.5	2:1
LSD3563-XX	GaAsP/GaP	Yellow		585	35	1.7	2.0	2.8	1.0	2.3	2:1
LSD3564-XX	GaAsP/GaP	Orange		635	45	1.7	2.0	2.8	1.75	4.0	2:1

▪ Absolute Maximum Rating (Ta=25°C)

Parameter	Red				Green		Yellow		Orange		Unit	Remark
	SR	HR	VR	H	G		Y		E			
Forward Current Per Chip	40	40	30	15	30		20		30	mA		
Peak Current Per Chip (Duty 1/10,0.1mS Pulse Width)	200	200	120	60	120		80		120	mA		
Power Dissipation Per Chip	110		100	45	100		85		100	mW		
Derating Linear From 25°C Per Chip	0.45		0.25	0.45	0.45		0.45		0.45	mA/°C		
Reverse Current Per Any Chip	10				10		10		10	μA		
Operating Temperature	-25°C TO +85°C											
Storage Temperature	-25°C TO +85°C											

Solder Temperature 1-16 Inch Below Seating Plane For 3 Seconds At 260 °C

▪ Test Condition For Each Parameter

Parameter	Symbol	Unit	Test Condition
Forward Voltage Per Chip	Vf	volt	If=10mA
Luminous Intensity Per Chip	Iv	mcd	If=10mA
Peak Emission Wavelength	λ_p	nm	If=20mA
Spectral Line Half-Width	$\Delta\lambda$	nm	If=20mA
Reverse Current Any Chip	Ir	μA	Vr=5V
Luminous Intensity Matching Ratio	IV-M		