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# Jameco Part Number 24731

**LIGITEK**

**SINGLE DIGIT LED DISPLAY (0.3Inch) LSD301X/2X series** Page 1/2

PACKAGE DIMENSION	INTERNAL CIRCUIT DIAGRAM		
<p>NOTE: All Dimension Are In Millimeters And (Inch) Tolerance Is +0.25(0.01") Unless Otherwise Noted</p>			
<p>• <b>Connection To Electrical Schematic</b></p>			
<p><b>Electrical Connection</b></p>			
PIN NO.	LSD301X-XX	PIN NO.	LSD302X-XX
1	Common Cathode	1	Cathode A
2	Anode F	2	Cathode F
3	Anode G	3	Common Anode
4	Anode E	4	No Pin
5	Anode D	5	No Pin
6	Common Cathode	6	No Connect
7	Anode Dp	7	Cathode E
8	Anode C	8	Cathode D
9	Anode B	9	Cathode DP
10	Anode A	10	Cathode C
11		11	Cathode G
12		12	No Pin
13		13	Cathode B
14		14	Common Anode
<p>文件編號: QW0905-S301/2X-XX</p>		<p>版本: A</p>	
		<p>生效日期: May . 17 . 1996</p>	

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

PART NO	CHIP		common cathode or anode	$\lambda_P$ (nm)	$\Delta\lambda$ (nm)	Electrical					IV-M
	Material	Emitted				Vf(v)			Iv(mcd)		
						Min	Typ.	Max	Min	Typ.	
LSD3015-XX	GaAlAs	Red	Common Cathode	660	20	1.5	1.7	2.1	0.3	0.5	2:1
LSD3011-XX	GaP	Red		697	90	1.7	1.9	2.2	0.5	0.8	2:1
LSD3012-XX	GaP	Green		565	30	1.7	1.9	2.2	1.2	2.0	2:1
LSD3013-XX	GaAsP/GaP	Yellow		585	35	1.7	1.9	2.2	1.1	1.8	2:1
LSD3014-XX	GaAsP/GaP	Orange		635	45	1.7	1.9	2.2	1.2	2.0	2:1
LSD3025-XX	GaAlAs	Red	Common Anode	660	20	1.5	1.7	2.1	0.3	0.5	2:1
LSD3021-XX	GaP	Red		697	90	1.7	1.9	2.2	0.5	0.8	2:1
LSD3022-XX	GaP	Green		565	30	1.7	1.9	2.2	1.2	2.0	2:1
LSD3023-XX	GaAsP/GaP	Yellow		585	35	1.7	1.9	2.2	1.1	1.8	2:1
LSD3024-XX	GaAsP/GaP	Orange		635	45	1.7	1.9	2.2	1.2	2.0	2:1

**• Absolute Maximum Rating (Ta=25°C)**

Parameter	Red		Green	Yellow	Orange	Unit	Remark
Forward Current Per Chip	SR	H	G	Y	E	mA	
	40	15	30	20	30		
Peak Current Per Chip (Duty 1/10, 0.1MS Pulse Width)	200	60	120	80	120	mA	
Power Dissipation Per Chip	110	45	100	85	100	mW	
Derating Linear From 25°C Per Chip	0.45	0.25	0.45	0.45	0.45	mA/°C	
Reverse Current Per Any Chip	10		10	10	10	μA	
Operating Temperature	-40°C TO +85°C						
Storage Temperature	-40°C TO +100°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=3mA
Luminous Intensity Per Chip	Iv	mcd	If=3mA
Peak Emission Wavelength	$\lambda_P$	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		