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LIGITEK

SINGLE DIGIT LED DISPLAY (4.0 Inch) LSD4005X/6X series		Page 1/2																																												
PACKAGE DIMENSION		INTERNAL CIRCUIT DIAGRAM																																												
<p>LSD400X-XX LIGITEK</p> <p>NOTE: All Dimension Are In Millimeters And (Inch) Tolerance Is $\pm 0.25(0.01)$ Unless Otherwise Noted</p>		<p>LSD4005-XX</p> <p>LSD4006-XX</p>																																												
<p>• Connection To Electrical Schematic</p> <p style="text-align: center;"><i>Electrical Connection</i></p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">PIN NO.</th> <th style="width: 35%;">LSD4005X-XX</th> <th style="width: 15%;">PIN NO.</th> <th style="width: 35%;">LSD4006X-XX</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Common Cathode</td> <td>1</td> <td>Common Anode</td> </tr> <tr> <td>2</td> <td>Anode E</td> <td>2</td> <td>Cathode E</td> </tr> <tr> <td>3</td> <td>Anode D</td> <td>3</td> <td>Cathode D</td> </tr> <tr> <td>4</td> <td>Anode C</td> <td>4</td> <td>Cathode C</td> </tr> <tr> <td>5</td> <td>Anode DP</td> <td>5</td> <td>Cathode DP</td> </tr> <tr> <td>6</td> <td>Anode B</td> <td>6</td> <td>Cathode B</td> </tr> <tr> <td>7</td> <td>Anode A</td> <td>7</td> <td>Cathode A</td> </tr> <tr> <td>8</td> <td>Common Cathode</td> <td>8</td> <td>Common Anode</td> </tr> <tr> <td>9</td> <td>Anode F</td> <td>9</td> <td>Cathode F</td> </tr> <tr> <td>10</td> <td>Anode G</td> <td>10</td> <td>Cathode G</td> </tr> </tbody> </table>			PIN NO.	LSD4005X-XX	PIN NO.	LSD4006X-XX	1	Common Cathode	1	Common Anode	2	Anode E	2	Cathode E	3	Anode D	3	Cathode D	4	Anode C	4	Cathode C	5	Anode DP	5	Cathode DP	6	Anode B	6	Cathode B	7	Anode A	7	Cathode A	8	Common Cathode	8	Common Anode	9	Anode F	9	Cathode F	10	Anode G	10	Cathode G
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<p>文件編號: QW0905-S4005/6X-XX 版本: A 生效日期: Jun . 8 . 1996</p>																																														

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

PART NO	CHIP		common cathode or anode	λ_P (nm)	$\Delta\lambda$ (nm)	Electrical					IV-M
	material	emitted				Vf(v)			Iv(mcd)		
						Min	Typ.	Max	Min	Typ.	
LSD40055-XX	GaAlAs	Red	Common Cathode	660	20	1.5	1.7	2.4	14	23	2:1
LSD40051-XX	GaP	Red		697	90	1.7	2.1	2.8	5.4	9.0	2:1
LSD40052-XX	GaP	Green		565	30	1.7	2.1	2.8	11	18	2:1
LSD40053-XX	GaAsP/GaP	Yellow		585	35	1.7	2.0	2.8	10	17	2:1
LSD40054-XX	GaAsP/GaP	Orange		635	45	1.7	2.0	2.8	11	18	2:1
LSD40065-XX	GaAlAs	Red	Common Anode	660	20	1.5	1.7	2.4	14	23	2:1
LSD40061-XX	GaP	Red		697	90	1.7	2.1	2.8	5.4	9.0	2:1
LSD40062-XX	GaP	Green		565	30	1.7	2.1	2.8	11	18	2:1
LSD40063-XX	GaAsP/GaP	Yellow		585	35	1.7	2.0	2.8	10	17	2:1
LSD40064-XX	GaAsP/GaP	Orange		635	45	1.7	2.0	2.8	11	18	2:1

• Absolute Maximum Rating (Ta=25°C)

Parameter	Red		Green		Yellow		Orange		Unit	Remark
	SR	H	G		Y		E			
Forward Current Per Chip	40	15	30		20		30		mA	
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	-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=20mA
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		