

Jameco Part number 17208

**LIGITEK**

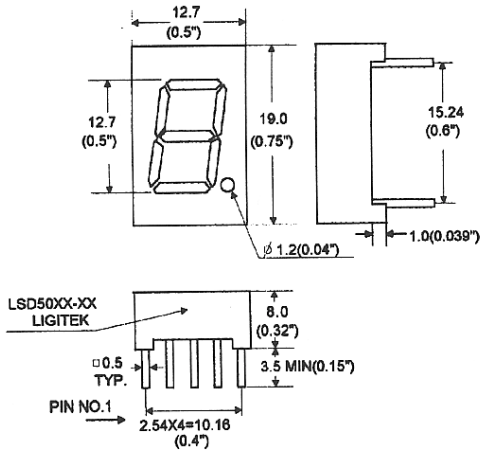
**SINGLE DIGIT LED DISPLAY (0.5Inch)**

**LSD505X/6X**

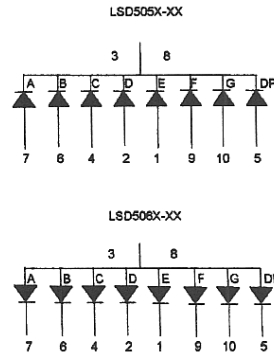
series

Page 1/2

**PACKAGE DIMENSION**



**INTERNAL CIRCUIT DIAGRAM**



NOTE: All Dimension Are In Millimeters And (Inch)  
Tolerance Is  $\pm 0.25(0.01)$ " Unless Otherwise Noted

**Connection To Electrical Schematic**

*Electrical Connection*

PIN NO.	LSD505X-XX	PIN NO.	LSD506X-XX
1	Anode E	1	Cathode E
2	Anode D	2	Cathode D
3	Common Cathode	3	Common Andoe
4	Anode C	4	Cathode C
5	Andoe DP	5	Cathode DP
6	Andoe B	6	Cathode B
7	Andoe A	7	Cathode A
8	Common Cathode	8	Common Andoe
9	Andoe F	9	Cathode F
10	Andoe G	10	Cathode G

文件編號

:QW0905=S505/6X=XX

版本:A

生效日期: Jun. 8.

● **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.	
LSD3155-XX	GaAlAs	Red	Common Cathode	660	20	1.5	1.7	2.4	1.6	2.6	2:1
LSD3151-XX	GaP	Red		697	90	1.7	2.1	2.8	0.5	0.8	2:1
LSD3152-XX	GaP	Green		565	30	1.7	2.1	2.8	1.2	2.0	2:1
LSD3153-XX	GaAsP/GaP	Yellow		585	35	1.7	2.0	2.8	1.2	2.0	2:1
LSD3154-XX	GaAsP/GaP	Orange		635	45	1.7	2.0	2.8	1.2	2.0	2:1
LSD3165-XX	GaA/As	Red	Common Anode	660	20	1.5	1.7	2.4	1.6	2.6	2:1
LSD3161-XX	GaP	Red		697	90	1.7	2.1	2.8	0.5	0.8	2:1
LSD3162-XX	GaP	Green		565	30	1.7	2.1	2.8	1.2	2.0	2:1
LSD3163-XX	GaAsP/GaP	Yellow		585	35	1.7	2.0	2.8	1.2	2.0	2:1
LSD3164-XX	GaAsP/GaP	Orange		635	45	1.7	2.0	2.8	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			
	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	- 40°C TO +85°C							
Storage Temperature	-40°C TO +100°C							
Solder Temperature 1/16 inch Below Seating								

● **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	$\lambda_P$	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		