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DUAL DIGIT LED DISPLAY (0.30 Inch)

**LDD325/64-XX**

# **DATA SHEET**

DOC. NO : QW0905-LDD325/64-XX

REV. : A

DATE : 13- Oct. - 2005



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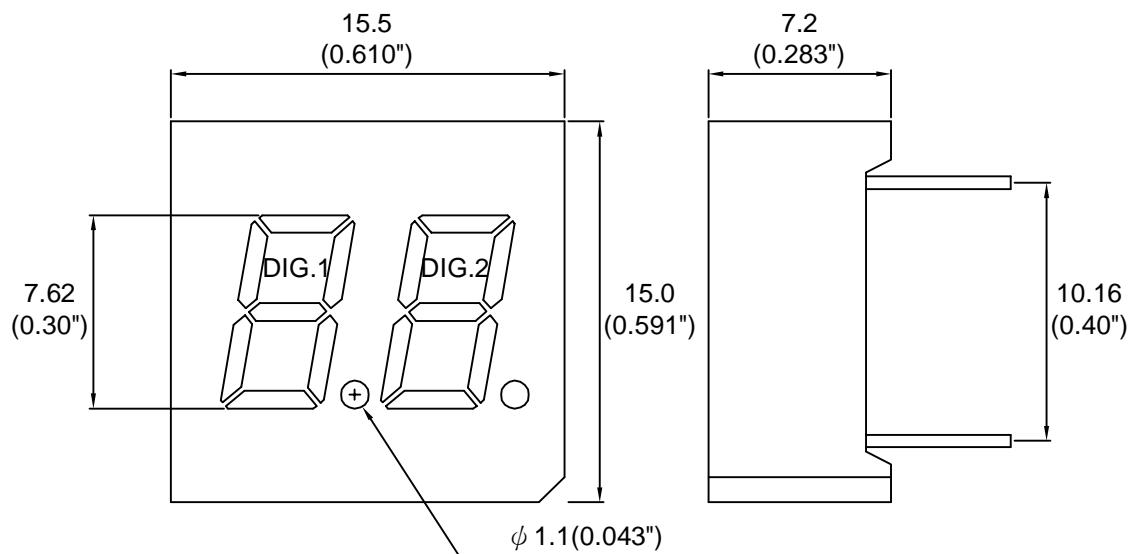
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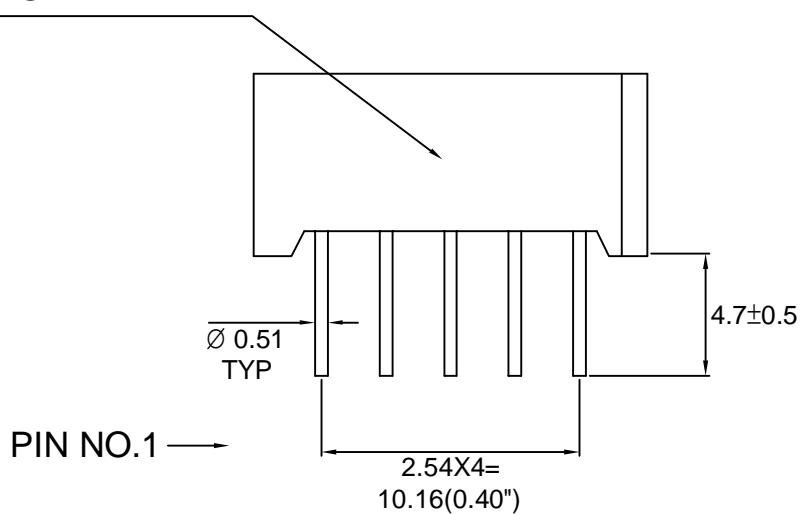
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## Package Dimensions



LDD325/64-XX  
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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.



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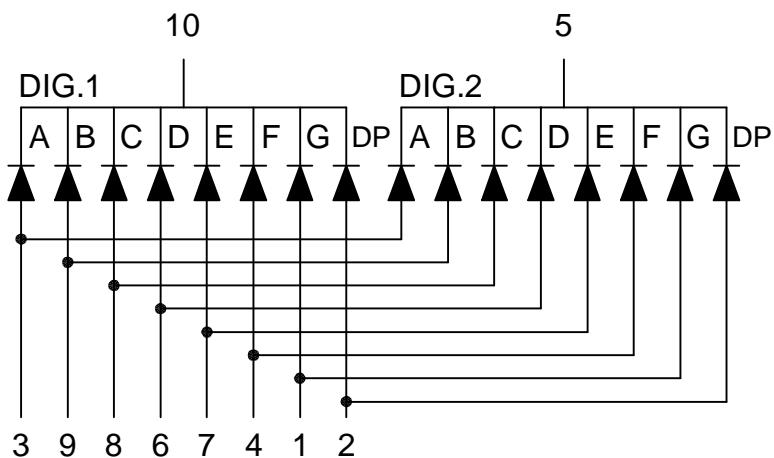
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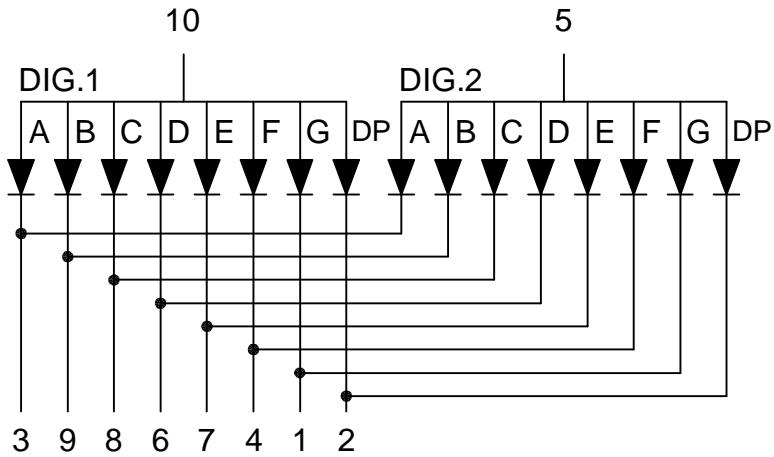
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### Internal Circuit Diagram

LDD3254-XX



LDD3264-XX





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## Electrical Connection

PIN NO.	LDD3254-XX	PIN NO.	LDD3264-XX
1	Anode G	1	Cathode G
2	Anode DP	2	Cathode DP
3	Anode A	3	Cathode A
4	Anode F	4	Cathode F
5	Common Cathode Dig.2	5	Common Anode Dig.2
6	Anode D	6	Cathode D
7	Anode E	7	Cathode E
8	Anode C	8	Cathode C
9	Anode B	9	Cathode B
10	Common Cathode Dig.1	10	Common Anode Dig.1



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## Absolute Maximum Ratings at Ta=25 °C

Parameter	Symbol	Ratings		UNIT
		E		
Forward Current Per Chip	I <sub>F</sub>	30		mA
Peak Forward Current Per Chip (Duty 1/10,0.1ms Pulse Width)	I <sub>FP</sub>	120		mA
Power Dissipation Per Chip	P <sub>D</sub>	100		mW
Reverse Current Per Any Chip	I <sub>r</sub>	10		μA
Operating Temperature	T <sub>opr</sub>	-25 ~ +85		°C
Storage Temperature	T <sub>stg</sub>	-25 ~ +85		°C
Solder Temperature 1/16 Inch Below Seating Plane For 3 Seconds At 260 °C				

## Part Selection And Application Information(Ratings at 25°C)

PART NO	CHIP		common cathode or anode	λ P (nm)	△ λ (nm)	Electrical				IV-M				
	Material	Emitted				Vf(v)		Iv(mcd)						
						Min.	Max.	Min.	Typ.					
LDD3254-XX	GaAsP/GaP	Orange	Common Cathode	635	45	1.7	2.6	0.5	1.0	2:1				
LDD3264-XX			Common Anode											

Note : 1.The forward voltage data did not including ±0.1V testing tolerance.  
 2. The luminous intensity data did not including ±15% testing tolerance.



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## Test Condition For Each Parameter

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



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## Typical Electro-Optical Characteristics Curve

E CHIP

Fig.1 Forward current vs. Forward Voltage

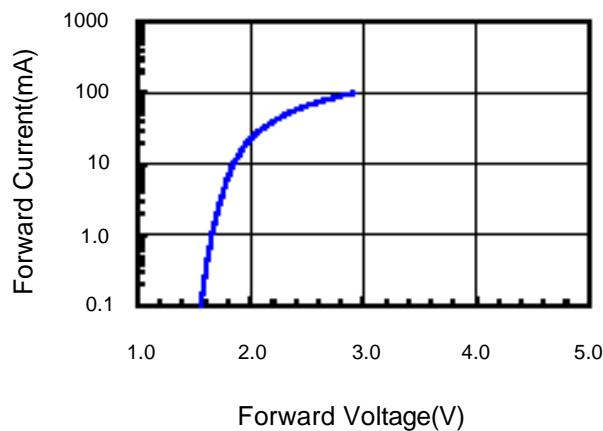


Fig.2 Relative Intensity vs. Forward Current

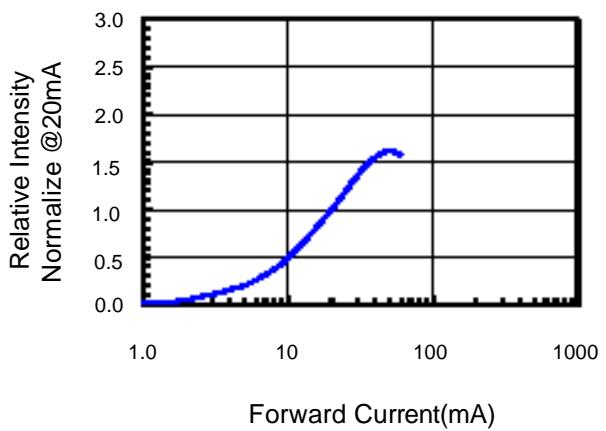


Fig.3 Forward Voltage vs. Temperature

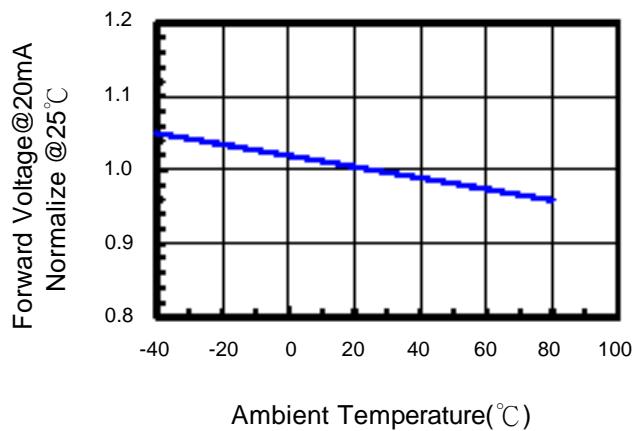


Fig.4 Relative Intensity vs. Temperature

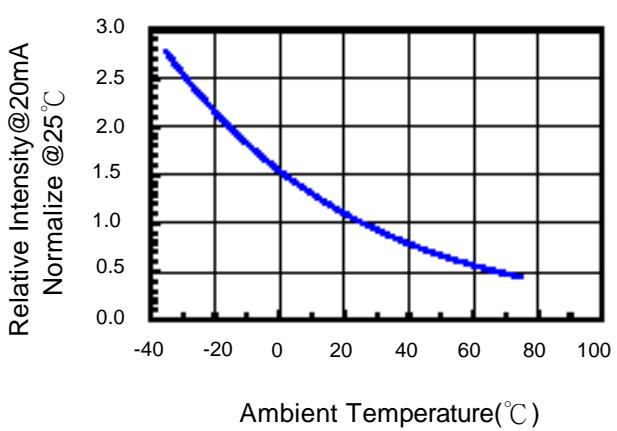
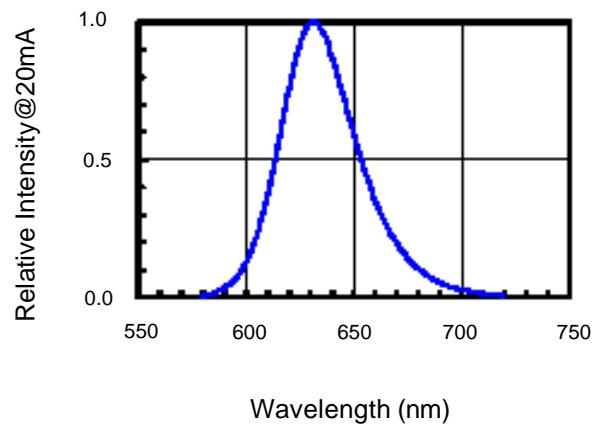


Fig.5 Relative Intensity vs. Wavelength





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## Reliability Test:

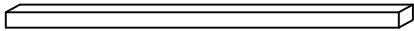
Test Item	Test Condition	Description	Reference Standard
Operating Life Test	1.Under Room Temperature 2.If=10mA 3.t=1000 hrs (-24hrs, +72hrs)	This test is conducted for the purpose of determining the resistance of a part in electrical and thermal stressed.	MIL-STD-750: 1026 MIL-STD-883: 1005 JIS C 7021: B-1
High Temperature Storage Test	1.Ta=105 °C±5°C 2.t=1000 hrs (-24hrs, +72hrs)	The purpose of this is the resistance of the device which is laid under condition of high temperature for hours.	MIL-STD-883:1008 JIS C 7021: B-10
Low Temperature Storage Test	1.Ta=-40 °C±5°C 2.t=1000 hrs (-24hrs, +72hrs)	The purpose of this is the resistance of the device which is laid under condition of low temperature for hours.	JIS C 7021: B-12
High Temperature High Humidity Test	1.Ta=65 °C±5°C 2.RH=90 %~95% 3.t=240hrs ±2hrs	The purpose of this test is the resistance of the device under tropical for hours.	MIL-STD-202:103B JIS C 7021: B-11
Thermal Shock Test	1.Ta=105 °C±5°C &-40°C±5°C (10min) (10min) 2.total 10 cycles	The purpose of this is the resistance of the device to sudden extreme changes in high and low temperature.	MIL-STD-202: 107D MIL-STD-750: 1051 MIL-STD-883: 1011
Solder Resistance Test	1.T.Sol=260 °C±5°C 2.Dwell time= 10 ±1sec.	This test intended to determine the thermal characteristic resistance of the device to sudden exposures at extreme changes in temperature when soldering the lead wire.	MIL-STD-202: 210A MIL-STD-750: 2031 JIS C 7021: A-1
Solderability Test	1.T.Sol=230 °C±5°C 2.Dwell time=5 ±1sec	This test intended to see soldering well performed or not.	MIL-STD-202: 208D MIL-STD-750: 2026 MIL-STD-883: 2003 JIS C 7021: A-2



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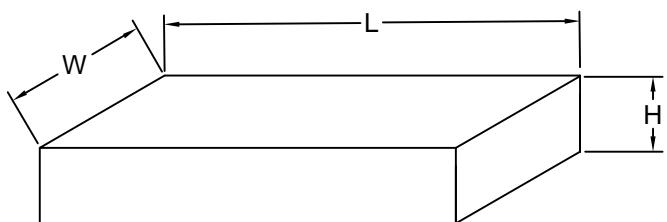
## PACKING SPECIFICATION

### 1. 32PCS / TUBE



### 2. 72TUBES / INNER BOX

SIZE : L X W X H 55cm X 22.5cm X 10cm



### 3. 4 INNER BOXES / CARTON

SIZE : L X W X H 56.5cm X 47.5cm X 24cm

