

DUAL DIGIT SMD DISPLAY(0.39")



LSDD305/63V-XX

DATA SHEET

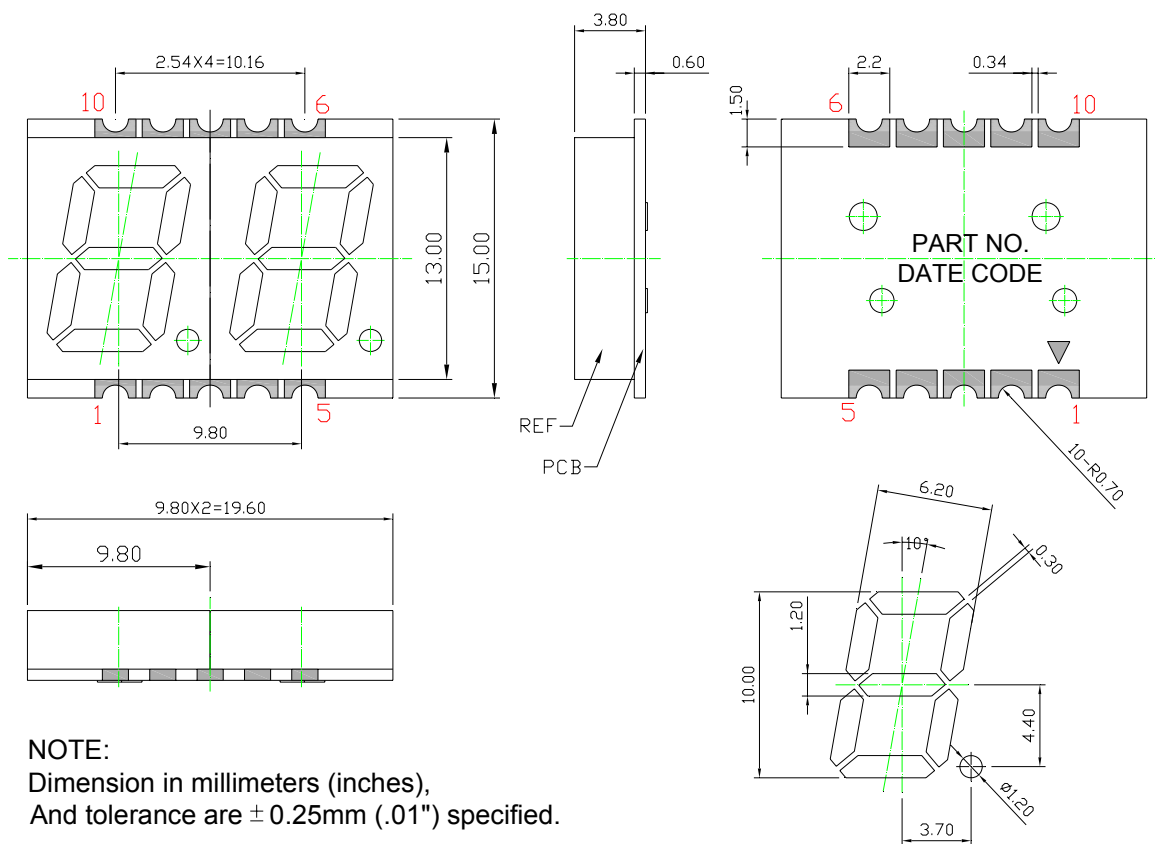
DOC.NO : QW0905- LSDD305/63V-XX

REV. : B

DATE : 09 – Jul. – 2013

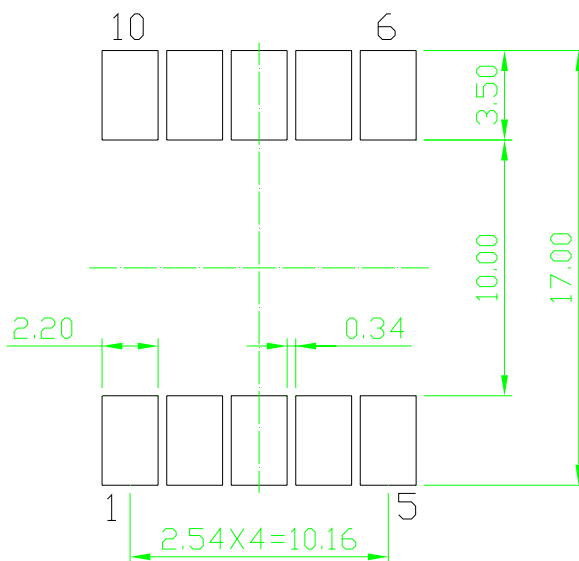


Package Dimensions

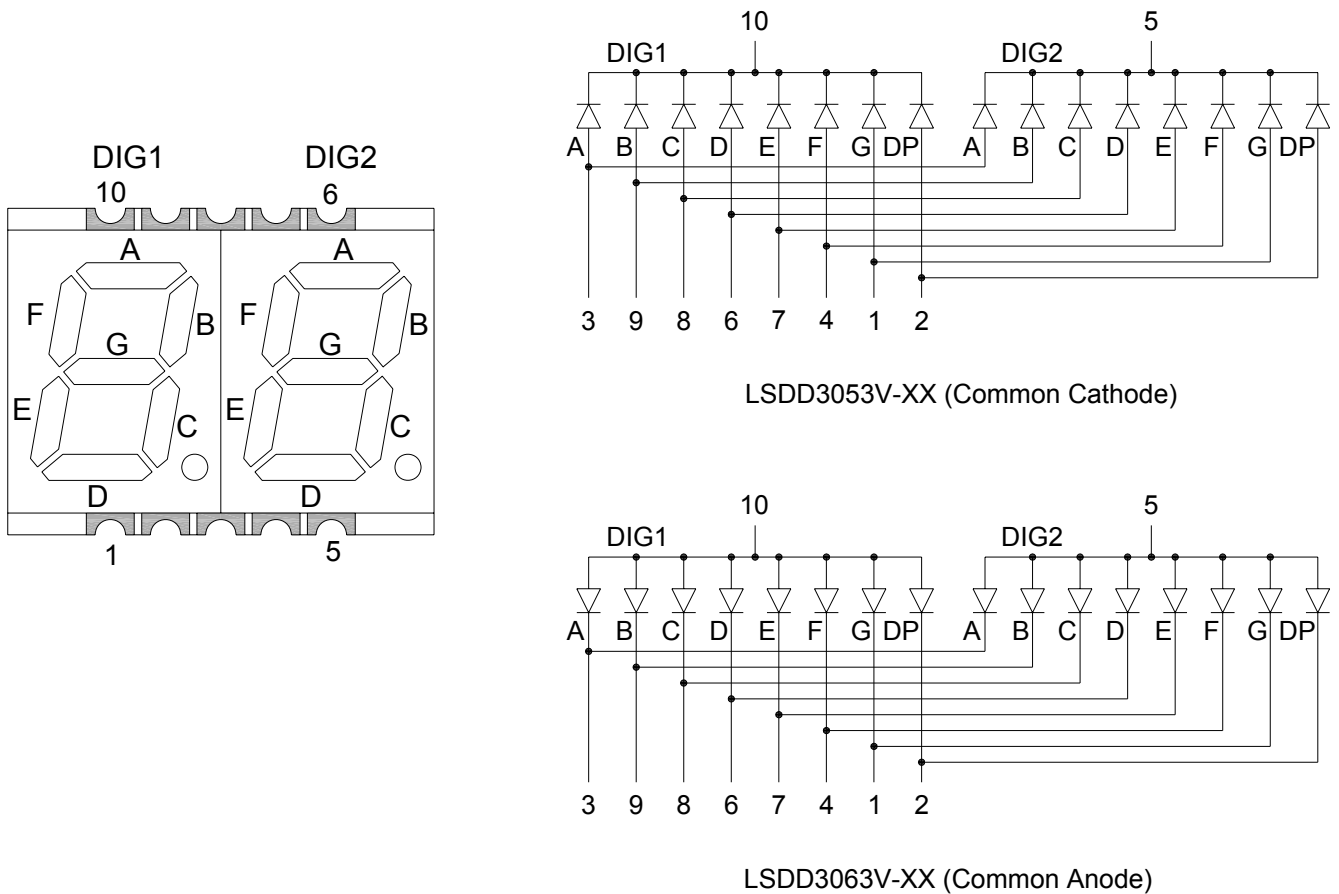


NOTE:
Dimension in millimeters (inches),
And tolerance are ± 0.25 mm (.01") specified.

Recommended Soldering Pad Dimensions



Internal Circuit Diagram



Electrical Connection

PIN NO.	LSDD3053V-XX	PIN NO.	LSDD3063V-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 DIG2	5	Common Anode
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 DIG1	10	Common Anode DIG1

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Ratings	UNIT
Power Dissipation	PD	70	mW
Peak pulse current Duty 1/10@10KHz	I _{FP}	90	mA
Forward Current Per Chip	I _F	25	mA
Debating liner from 25°C per segment	---	0.28	mA / °C
Storage Temperature	T _{stg}	-40 ~ +105	°C
Operating Temperature	T _{opr}	-40 ~ +105	°C

Typical Electrical & Optical Characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	IV	----	30	-----	mcd	IF=20mA
Dominant Wavelength	λ D	----	590	----	nm	IF=20mA
Spectral Line Half-Width	ΔP	----	20	----	nm	IF=20mA
Forward Voltage	VF	----	2.0	2.6	V	IF=20mA
Reverse Current	I _r	----	----	10	μ A	VR=5V

Note : 1.The forward voltage data did not including ±0.1V testing tolerance.

2.The luminous intensity data did not including ±15% testing tolerance.

Typical Electro-Optical Characteristics Curve

(25 °C Free Air Temperature Unless Otherwise Specified)

3v: Super Bright Yellow (AlGaInP/GaAs) CURVE

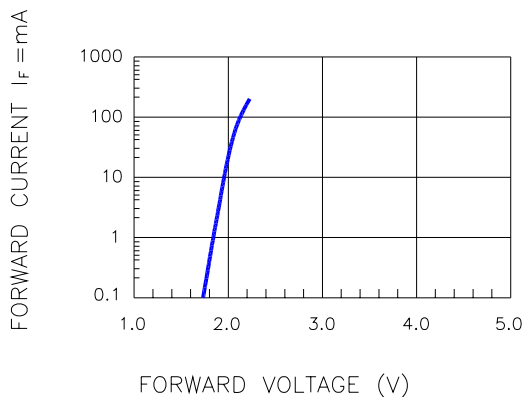


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

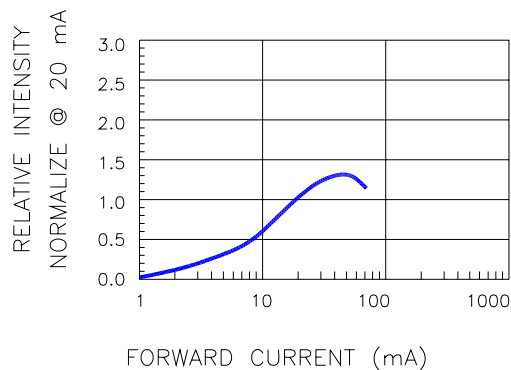


Fig.2 RELATIVE INTENSITY VS. FORWARD CURRENT

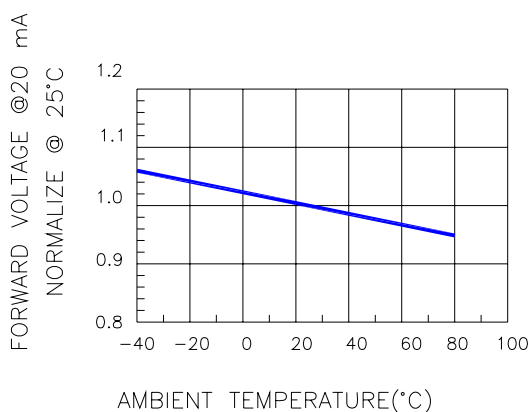


Fig.3 FORWARD VOLTAGE VS. TEMPERATURE

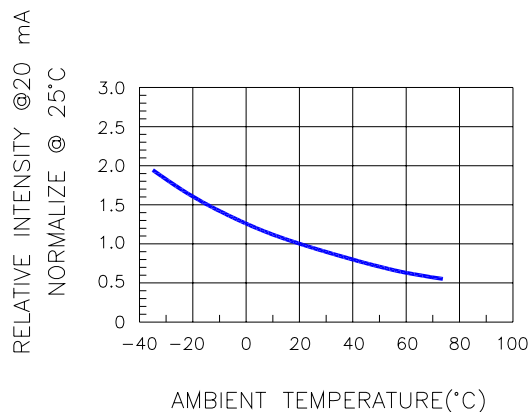


Fig.4 RELATIVE INTENSITY VS. TEMPERATURE

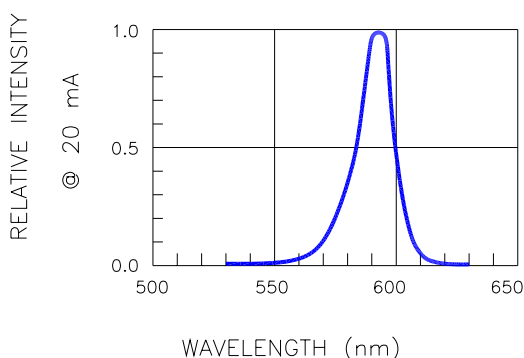


Fig.5 RELATIVE INTENSITY VS. WAVELENGTH

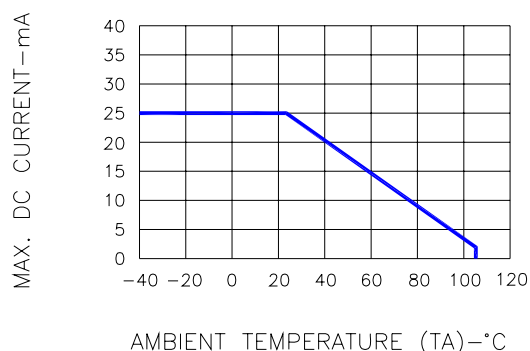
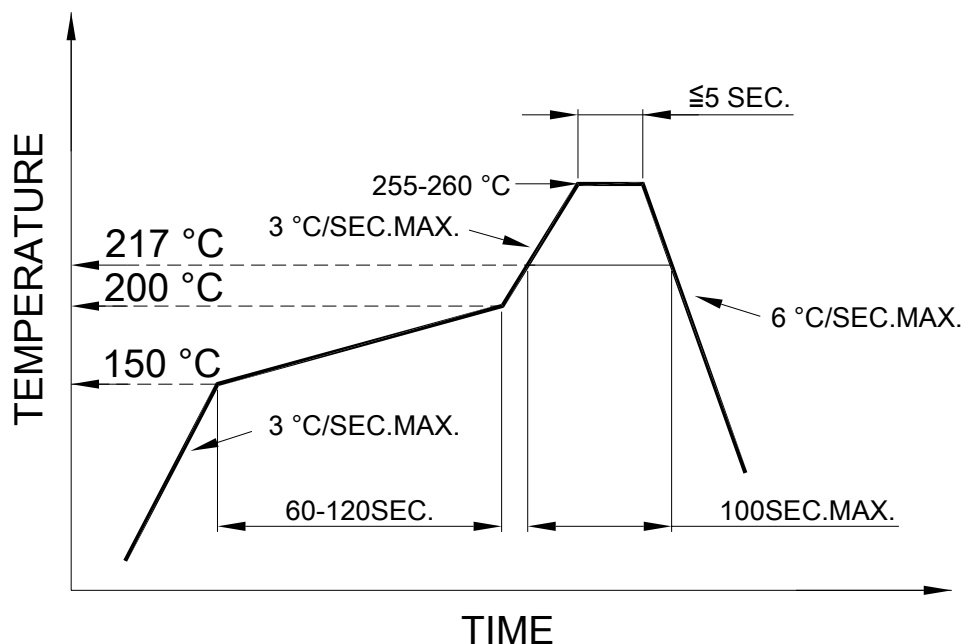


Fig.6 MAX. ALLOWABLE DC CURRENT VS. AMBIENT TEMPERATURE

SMT REFLOW SOLDERING INSTRUCTIONS

SMT Soldering Profile

Pb free reflow soldering Profile



SOLDERING IRON

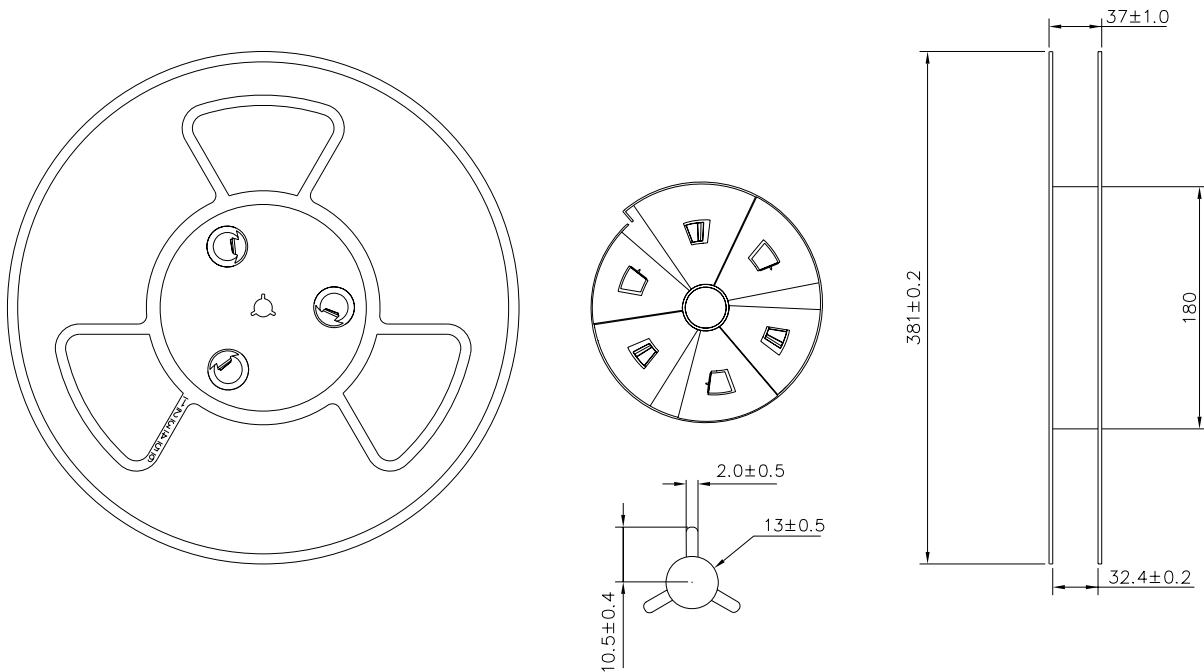
Basic spec is ≤ 4 sec when 260°C. If temperature is higher, time should be shorter (+10°C→1 sec). Power dissipation of Iron should be smaller than 15W, and temperature should be controllable. Surface temperature of the device should be under 230°C.

REWORK

Customer must finish rework within 3 sec. under 350°C.

The head of soldering iron cannot touch copper foil.

REEL DIMENSIONS



PACKING & LABEL SPECIFICATIONS

