

LED DISPLAY**LTC-5653KF-01**
DATASHEET

<u>Rev</u>	<u>Description</u>	<u>By</u>
01	ORIGINAL	<u>KITTISAK</u> <u>Jan 05/2008</u>
<u>(Above data for PD and Customer tracking only)</u>		
-	NPPR Received and Upload on OPNC	<u>KITTISAK</u> <u>Mar 08/2008</u>

SPEC. NO.: DS30-2008-0043DATE : Mar 08/2008REV. NO. : -PAGE NO. : 0 OF 5

FEATURES

- * 0.56-INCH (14.22-mm) DIGIT HEIGHT.
- * CONTINUOUS UNIFORM SEGMENTS.
- * LOW POWER REQUIREMENT.
- * EXCELLENT CHARACTERS APPEARANCE.
- * HIGH BRIGHTNESS & HIGH CONTRAST.
- * WIDE VIEWING ANGLE.
- * SOLID STATE RELIABILITY.
- * **LEAD-FREE PACKAGE (ACCORDING TO ROHS)**

DESCRIPTION

The LTC-5653KF-01 is a 0.56-inch (14.22-mm) digit height quad digit seven-segment display. This device uses AlInGaP Yellow Orange chips (AlInGaP epi on GaAs substrate). The display has gray face and white segments.

DEVICE

PART NO.	DESCRIPTION
AlInGaP Yellow Orange	Common Anode
LTC-5653KF-01	Rt. Hand Decimal

PIN CONNECTION

No.	CONNECTION
1	Cathode E (Digit 1)
2	Cathode D (Digit 1)
3	Cathode D.P. (Digit 1)
4	Cathode C (Digit 1)
5	Cathode G (Digit 1)
6	Common Anode (Digit 4)
7	Cathode B (Digit 1)
8	Common Anode (Digit 3)
9	Common Anode (Digit 2)
10	Cathode F (Digit 1)
11	Cathode A (Digit 1)
12	Common Anode (Digit 1)

ABSOLUTE MAXIMUM RATING AT $T_A=25^{\circ}\text{C}$

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation Per Segment	70	mW
Peak Forward Current Per Segment (1/10 Duty Cycle, 0.1ms Pulse Width)	90	mA
Continuous Forward Current Per Segment	25	mA
Derating Linear From 25°C Per Segment	0.28	$\text{mA}/^{\circ}\text{C}$
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35°C to $+105^{\circ}\text{C}$	
Storage Temperature Range	-35°C to $+105^{\circ}\text{C}$	
Soldering Conditions: 1/16 inch below seating plane for 3 seconds at 260°C ., or temperature of unit (during assembly) not over max. temperature rating above		

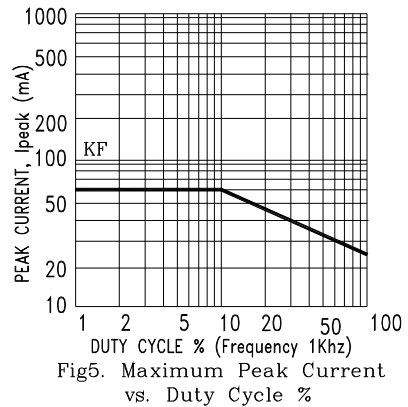
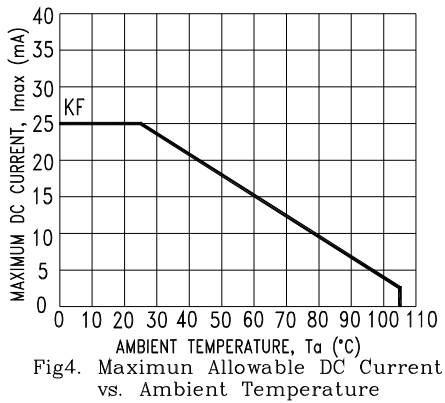
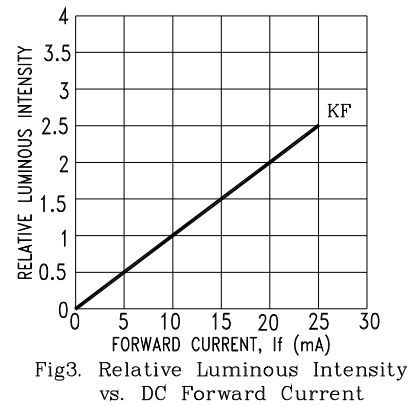
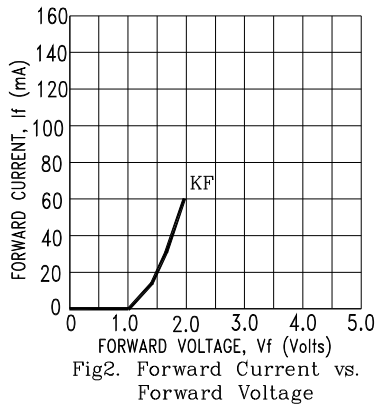
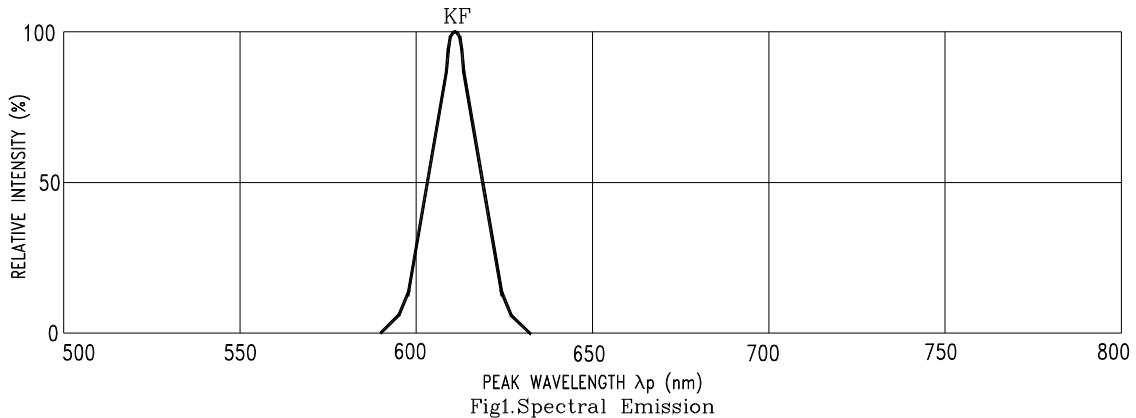
ELECTRICAL / OPTICAL CHARACTERISTICS AT $T_A=25^{\circ}\text{C}$

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I_v	800	2222		μcd	$I_F=1\text{mA}$
Peak Emission Wavelength	λ_p		611		nm	$I_F=20\text{mA}$
Spectral Line Half-Width	$\Delta\lambda$		17		nm	$I_F=20\text{mA}$
Dominant Wavelength	λ_d		605		nm	$I_F=20\text{mA}$
Forward Voltage Per Segment	V_F		2.05	2.6	V	$I_F=20\text{mA}$
Reverse Current Per Segment	I_R			100	μA	$V_R=5\text{V}$
Luminous Intensity Matching Ratio (Similar Light Area)	I_{v-m}			2:1		$I_F=1\text{mA}$

Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (commission international DE L'clairiage) eye-response curve.

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)



NOTE : KF=AlInGaP YELLOW ORANGE