



LED Display

Product Data Sheet

LTC-2623KF-J

Spec No.: DS30-2003-158

Effective Date: 10/31/2012

Revision: A

LITE-ON DCC

RELEASE

FEATURES

- * 0.28 inch (7.0 mm) DIGIT HEIGHT
- * EXCELLENT SEGMENT UNIFORMITY
- * LOW POWER REQUIREMENT
- * HIGH BRIGHTNESS AND HIGH CONTRAST
- * WIDE VIEWING ANGLE
- * SOLID STATE RELIABILITY
- * BINNED FOR LUMINOUS INTENSITY

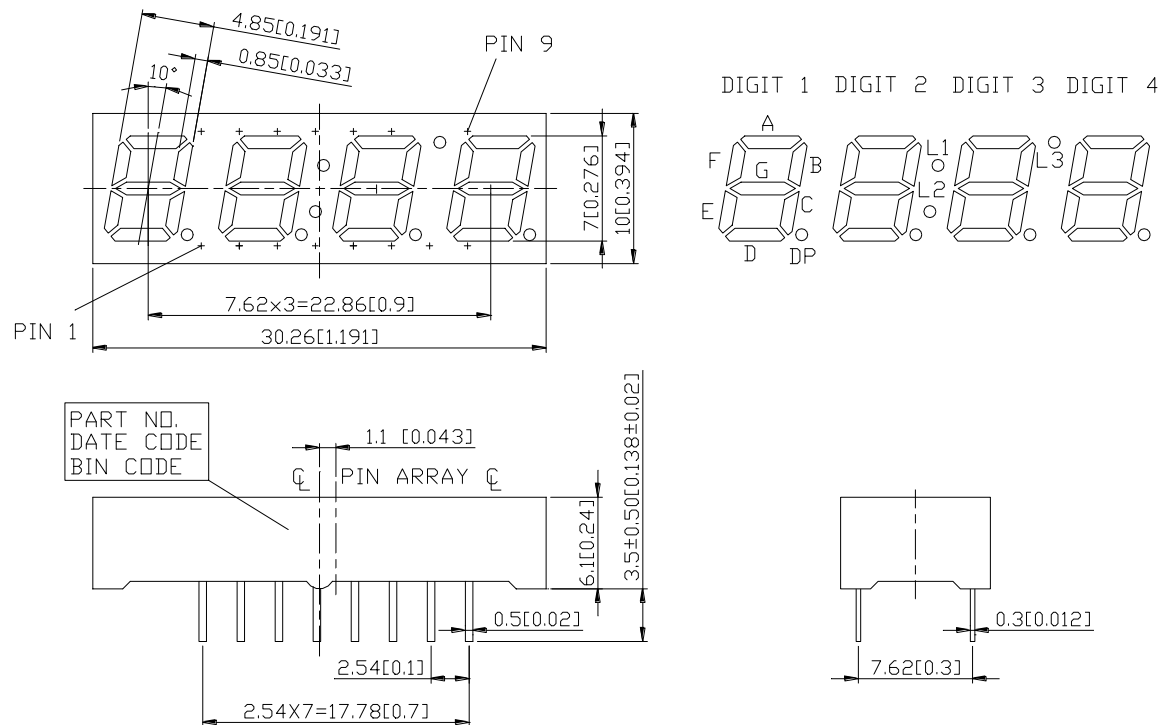
DESCRIPTION

The LTC-2623KF-J is a 0.28 inch (7.0 mm) digit height quadruple digit seven-segment display. This device uses AlInGaP YELLOW ORANGE LED chips (AlInGaP epi on GaAs substrate). The display has a gray face and white segments.

DEVICE

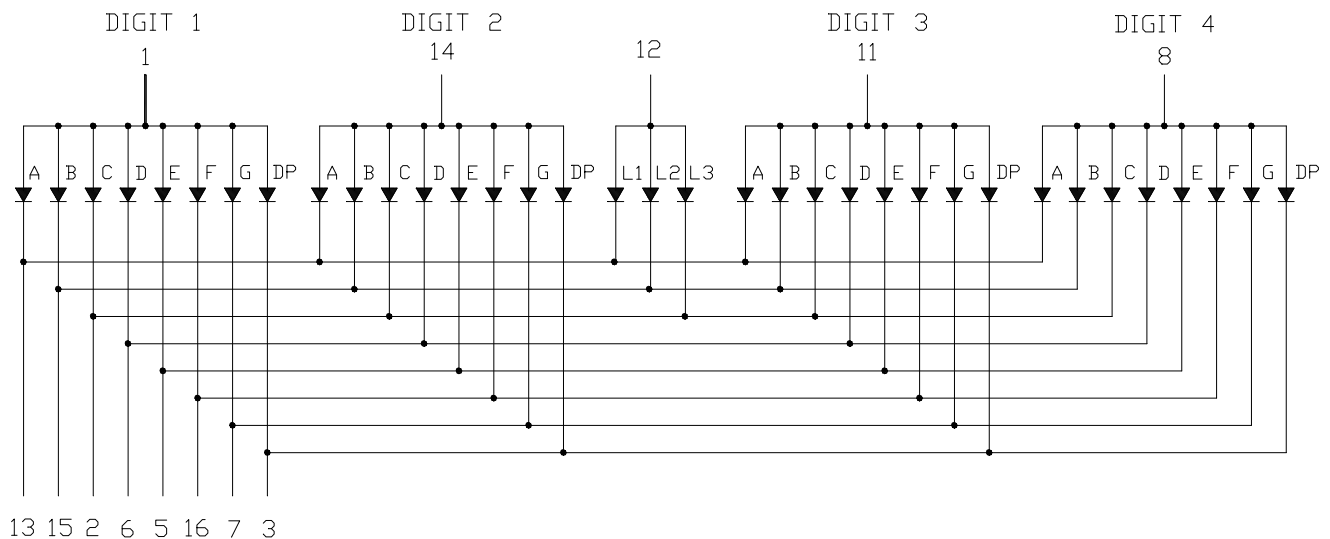
PART NO.	DESCRIPTION
AlInGaP YELLOW ORANGE	Multiplex Common Anode Rt. Hand Decimal
LTC-2623KF-J	

PACKAGE DIMENSIONS



NOTES: All dimensions are in millimeters. Tolerances are ± 0.25 mm (0.01") unless otherwise noted.

INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

NO	CONNECTION
1	Common Anode Digit 1
2	Cathode C,L3
3	Cathode DP
4	No Connection
5	Cathode E
6	Cathode D
7	Cathode G
8	Common Anode Digit 4
9	No Connection
10	No Pin
11	Common Anode Digit 3
12	Common Anode L1, L2, L3
13	Cathode A,L1
14	Common Anode Digit 2
15	Cathode B,L2
16	Cathode F

ABSOLUTE MAXIMUM RATING

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation Per Segment	70	mW
Peak Forward Current Per Segment (Frequency 1Khz, 10% duty cycle)	60	mA
Continuous Forward Current Per Segment	25	mA
Derating Linear From 25 ⁰ C Per Segment	0.33	mA/ ⁰ C
Operating Temperature Range	-35 ⁰ C to +85 ⁰ C	
Storage Temperature Range	-35 ⁰ C to +85 ⁰ C	
Solder Temperature 1/16 inch Below Seating Plane for 3 Seconds at 260 ⁰ C		

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25⁰C

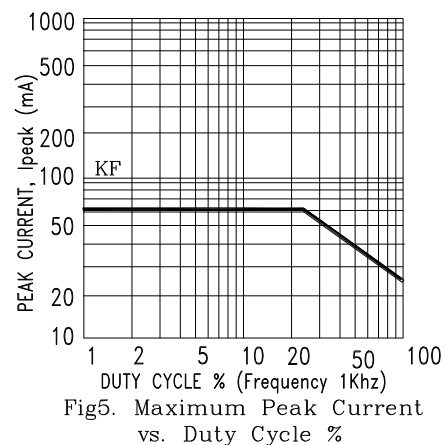
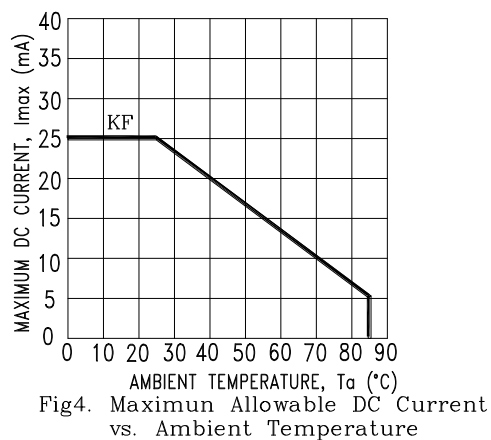
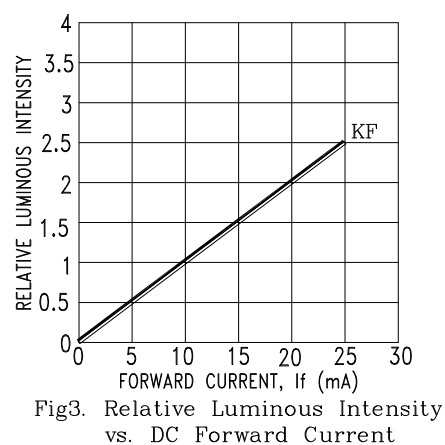
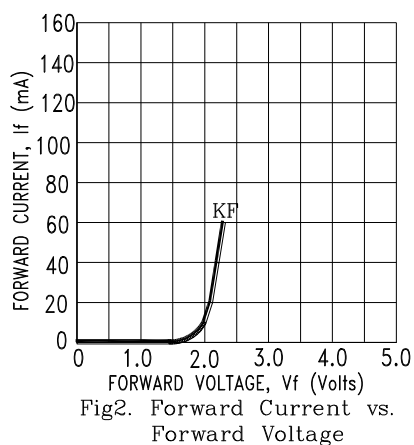
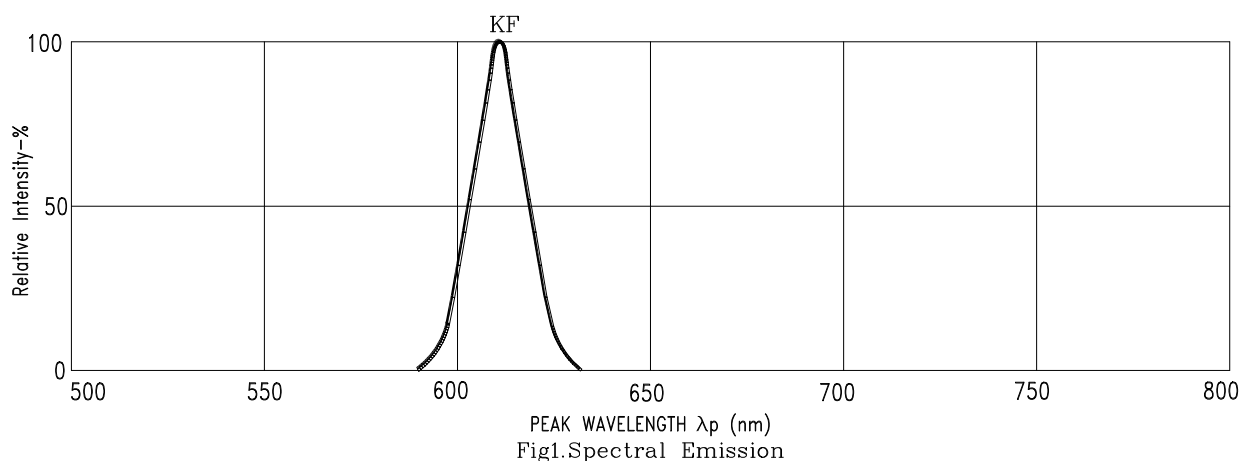
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I _v	500	1200		μcd	I _F =1mA
Peak Emission Wavelength	λ _p		611		nm	I _F =20mA
Spectral Line Half-Width	Δλ		17		nm	I _F =20mA
Dominant Wavelength	λ _d		605		nm	I _F =20mA
Forward Voltage Per Segment	V _F		2.05	2.6	V	I _F =20mA
Reverse Current Per Segment	I _R			100	μA	V _R =5V
Luminous Intensity Matching Ratio	I _v -m			2:1		I _F =1mA

Note:1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

2. Reverse voltage is only for IR test. It can not continue to operate at this situation.

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)



NOTE : KF=AlInGaP YELLOW ORANGE