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
* LEAD-FREE PACKAGE (ACCORDING TO RoHS).

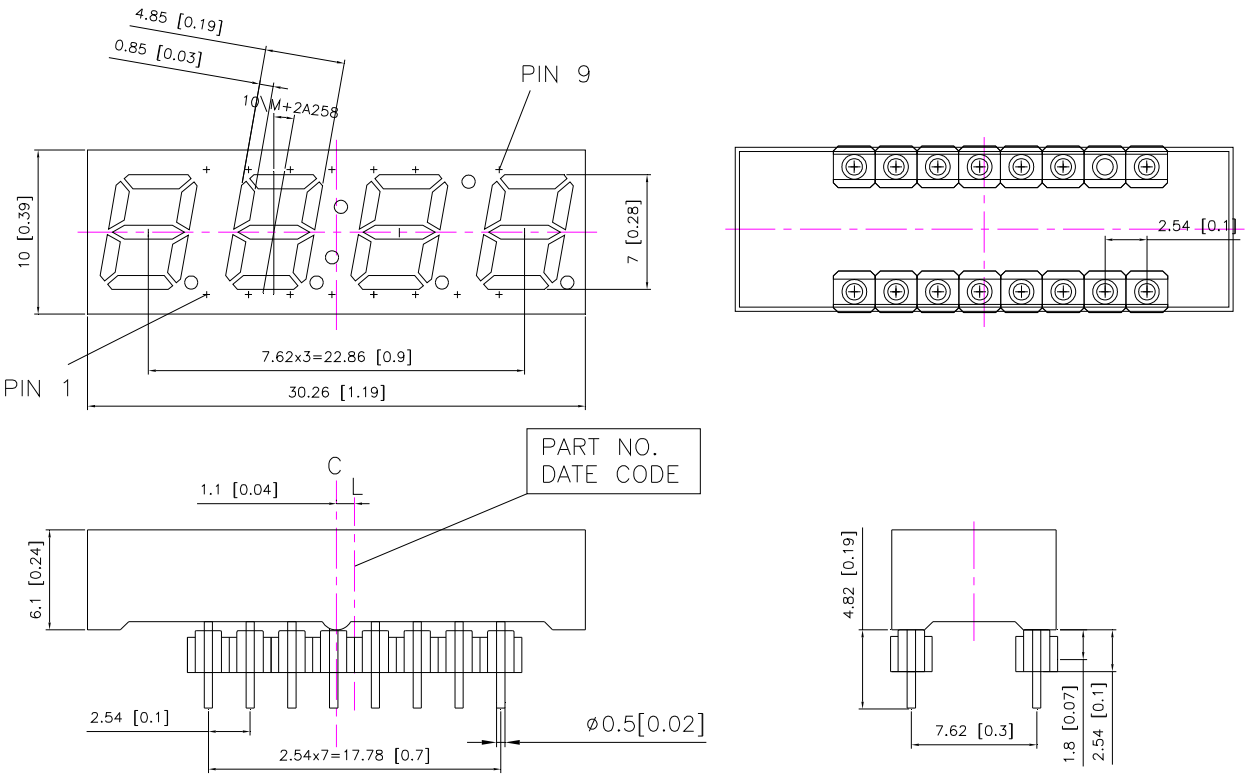
DESCRIPTION

The LTC-2723KF-08 is a 0.28 inch (7.0 mm) digit height quadruple digit seven-segment display. The device uses AlInGaP YELLOW ORANGE LED chips (AlInGaP epi on GaAs substrate). The display has black face and white segments.

DEVICE

PART NO.	DESCRIPTION
AlInGaP YELLOW ORANGE	Multiplex Common Cathode
LTC-2723KF-08	Rt. Hand Decimal

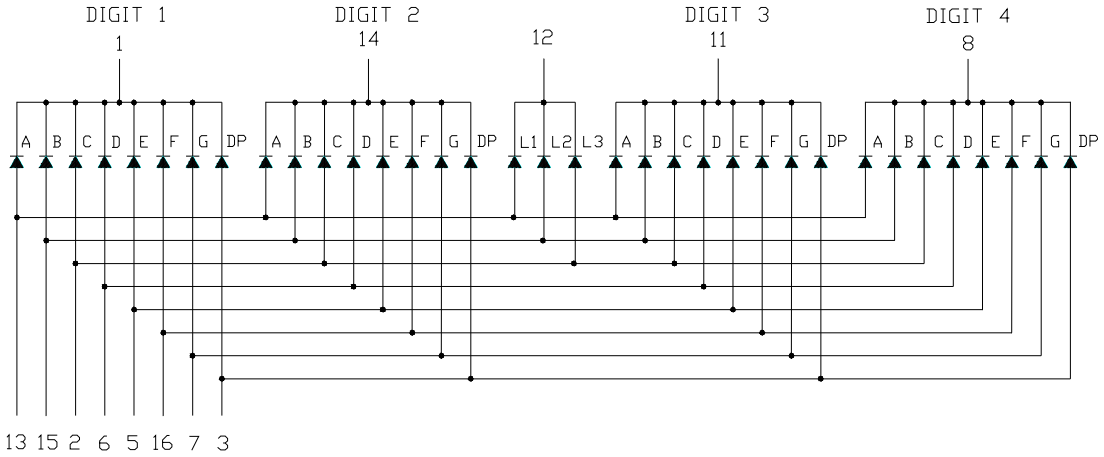
PACKAGE DIMENSIONS



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

PIN tip’s tolerance is ± 0.4mm

INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

No.	CONNECTION
1	COMMON CATHODE DIGHT 1
2	ANODE C , L3
3	ANODE D.P.
4	NO CONNECTION
5	ANODE E
6	ANODE D
7	ANODE G
8	COMMON CATHODE DIGHT 4
9	NO CONNECTION
10	NO PIN
11	COMMON CATHOE DIGHT 3
12	COMMON CATHODE L1 , L2 , L3
13	ANODE A , L1
14	COMMON CATHODE DIGHT 2
15	ANODE B , L2
16	ANODE 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 Derating Linear From 25℃ Per Segment	25 0.28	mA mA/℃
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35℃ to +105℃	
Storage Temperature Range	-35℃ to +105℃	
Solder Temperature: max 260℃ for max 3sec at 1.6mm below seating plane.		

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I_V	320	1200		μcd	I_F = 1mA
			15600		μcd	I_F = 10mA
Peak Emission Wavelength	λp		611		nm	I_F = 20mA
Spectral Line Half-Width	Δλ		17		nm	I_F = 20mA
Dominant Wavelength	λd		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: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

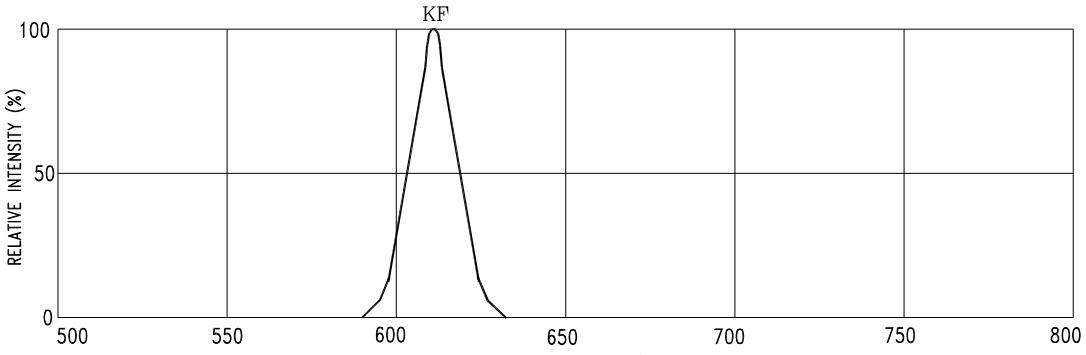


Fig1.Spectral Emission

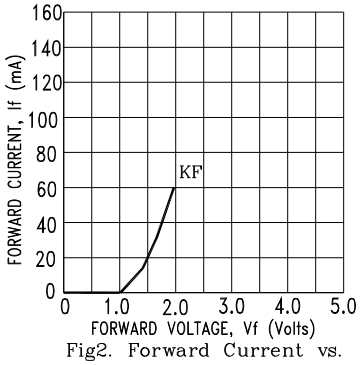


Fig2. Forward Current vs. Forward Voltage

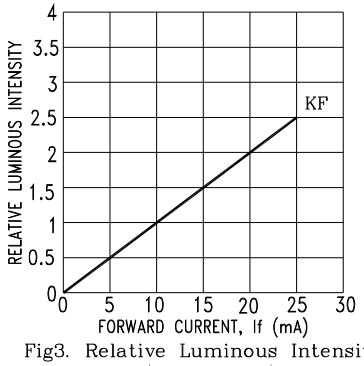


Fig3. Relative Luminous Intensity vs. DC Forward Current

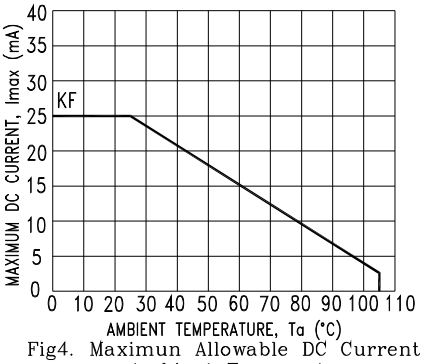


Fig4. Maximun Allowable DC Current vs. Ambient Temperature

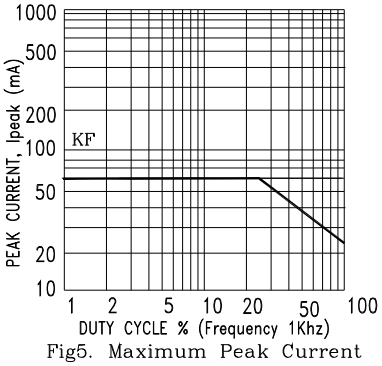


Fig5. Maximum Peak Current vs. Duty Cycle %

NOTE : KF= AlInGaP YELLOW ORANGE