

FEATURES

- * 0.6 INCH (15 mm) DIGIT HEIGHT.
- * CONTINUOUS UNIFORM SEGMENTS.
- * LOW POWER REQUIREMENT.
- * LONG DISTANCE VIEWING.
- * COLOR FILTER PROVIDES HIGH CONTRAST.
- * HIGH RELIABILITY AND LONG LIFE.
- * WIDE VIEWING ANGLE.
- * FULL FEATURE SELECTABLE.
- * FREQUENCY DISPLAY.
- * DESIGNED FOR CLOCK INDICATION, TIMER FREQUENCY COUNTER, INSTRUMENT...,ETC.

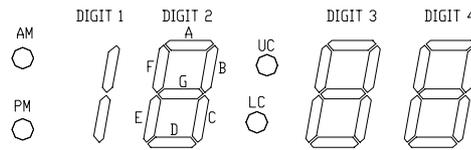
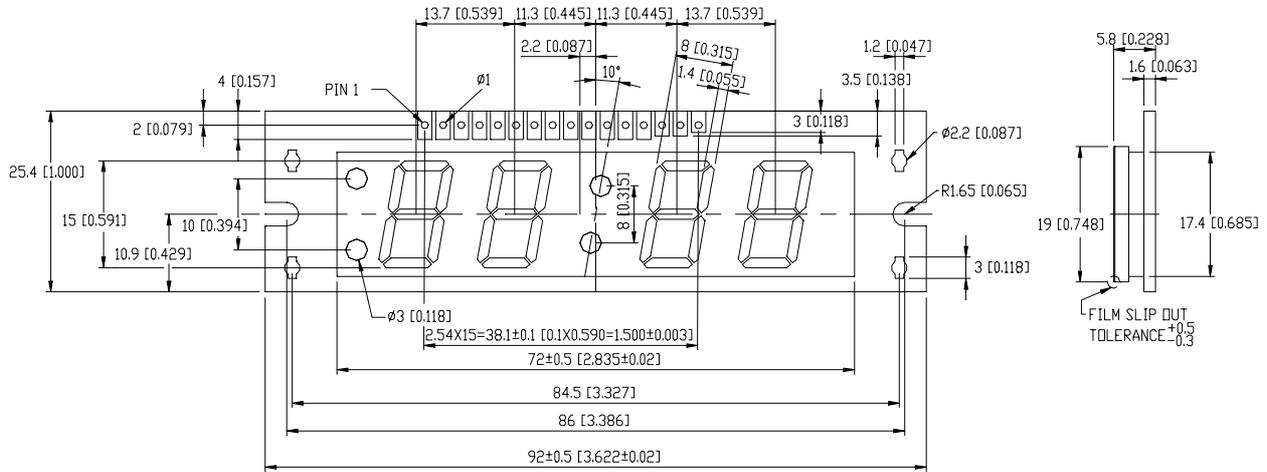
DESCRIPTION

The LTC-6512PDK2 is a 0.6 inch (15 mm) digit height display. This device utilizes bright red LED chips, which are made from GaP on a transparent GaP substrate, and a red face film is added on it.

DEVICE

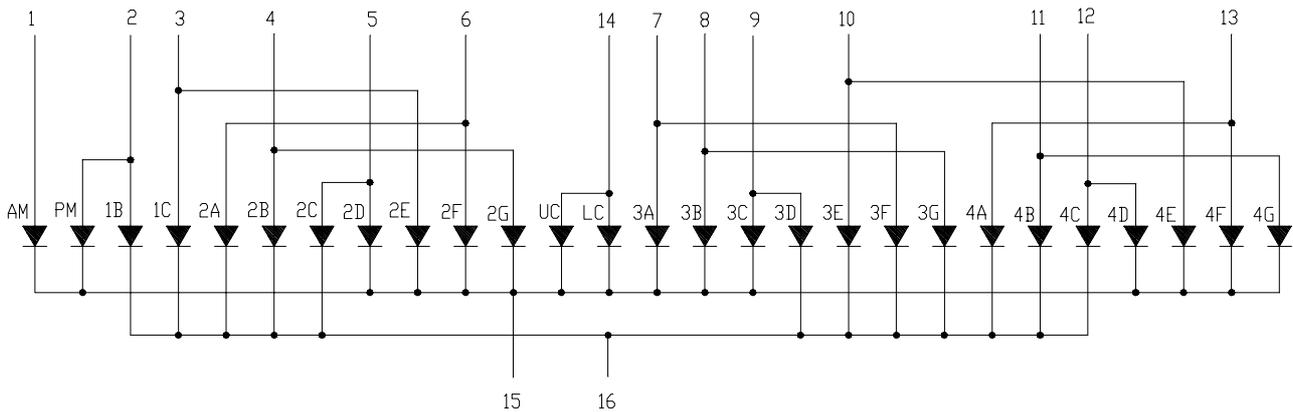
PART NO.	DESCRIPTION
Bright Red	
LTC-6512PDK2	Common Cathode

PACKAGE DIMENSIONS



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

INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

NO.	CONNECTION
1	ANODE AM
2	ANODE PM,1B
3	ANODE 1C,2E
4	ANODE 2B,2G
5	ANODE 2C,2D
6	ANODE 2A,2F
7	ANODE 3A,3F
8	ANODE 3B,3G
9	ANODE 3C,3D
10	ANODE 3E,4E
11	ANODE 4B,4G
12	ANODE 4C,4D
13	ANODE 4A,4F
14	ANODE UC,LC
15	CATHODE AM,PM,2DEFG,UC,LC,3ABC,4DEFG
16	CATHODE 1BC,2ABC,3DEFG,4ABC

ABSOLUTE MAXIMUM RATING AT T_A=25°C

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation Per Segment	40	mW
Peak Forward Current Per Segment (1/10 Duty Cycle, 0.1ms Pulse Width)	60	mA
Continuous Forward Current Per Segment	25	mA
Forward Voltage, Per Segment	0.2	mA/°C
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-25°C to +65°C	
Storage Temperature Range	-25°C to +65°C	
Solder Temperature: 3.5mm Below PCB.back side for 3sec. at 260°C		

ELECTRICAL / OPTICAL CHARACTERISTICS AT T_A=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I _v	125	350		μcd	I _F =10mA
Peak Emission Wavelength	λ _p		697		nm	I _F =20mA
Spectral Line Half-Width	Δλ		90		nm	I _F =20mA
Dominant Wavelength	λ _d		657		nm	I _F =20mA
Forward Voltage Per Segment	V _F		2.1	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 =10mA

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

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

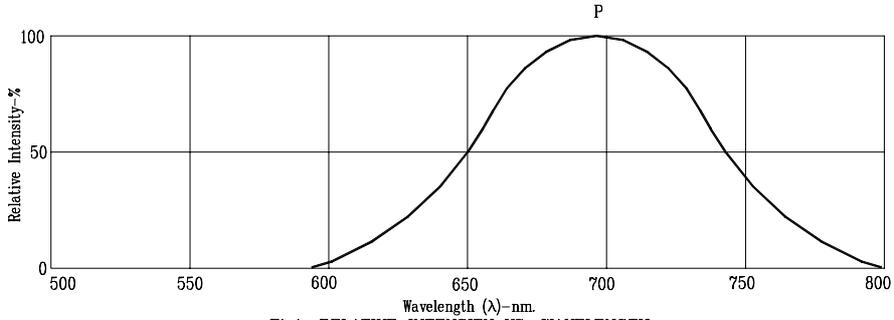


Fig1. RELATIVE INTENSITY VS. WAVELENGTH

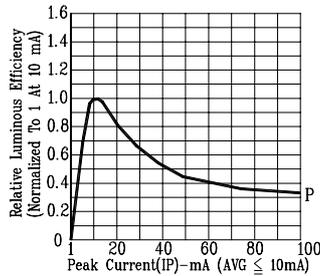


Fig2. RELATIVE LUMINOUS EFFICIENCY (LUMINOUS INTENSITY PER UNIT CURRENT) VS. PEAK CURRENT (REFRESH RATE 1KHz)

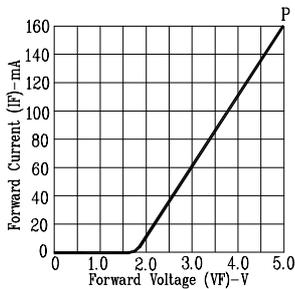


Fig3. FORWARD CURRENT VS. FORWARD VOLTAGE

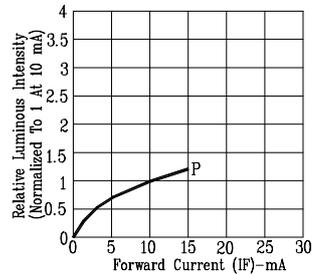


Fig4. RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

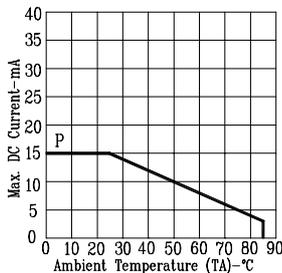


Fig5. MAX. ALLOWABLE DC CURRENT VS. AMBIENT TEMPERATURE.

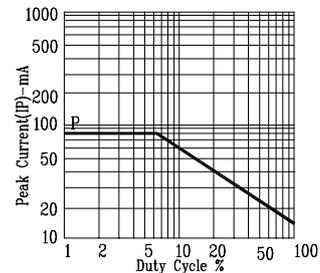


Fig6. MAX. PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE 1KHz)

NOTE: P=BRIGHT RED