

LED DISPLAY

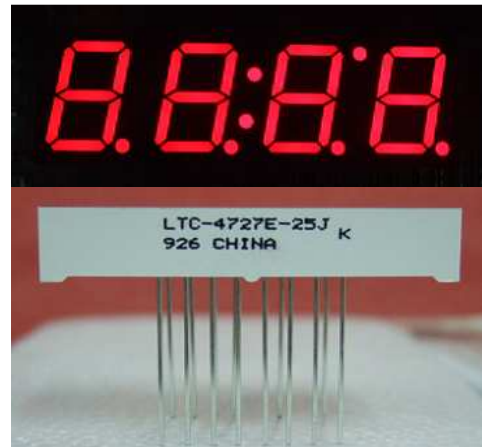
LTC-4727E-25J**DATA SHEET**

ITEM	DESCRIPTION	ISSUER	DATE
1	New	Bryan Kuo	05/25/2009
2	1. Change from white segments to red. 2. Add inner structure and packing spec.	Meg Huang	06/16/2009

SPEC NO. :
DATE : 05-25-2009
ITEM NO. : 2
PAGE NO. : 1 OF 8

FEATURES

- * 0.4 inch (10 mm) DIGIT HEIGHT.
- * CONTINUOUS UNIFORM SEGMENTS.
- * LOW POWER REQUIREMENT.
- * EXCELLENT CHARACTERS APPEARANCE.
- * HIGH BRIGHTNESS & HIGH CONTRAST.
- * WIDE VIEWING ANGLE.
- * SOLID STATE RELIABILITY.
- * CATEGORIZED FOR LUMINOUS INTENSITY.
- * LEAD-FREE PACKAGE (ACCORDING TO RoHS)

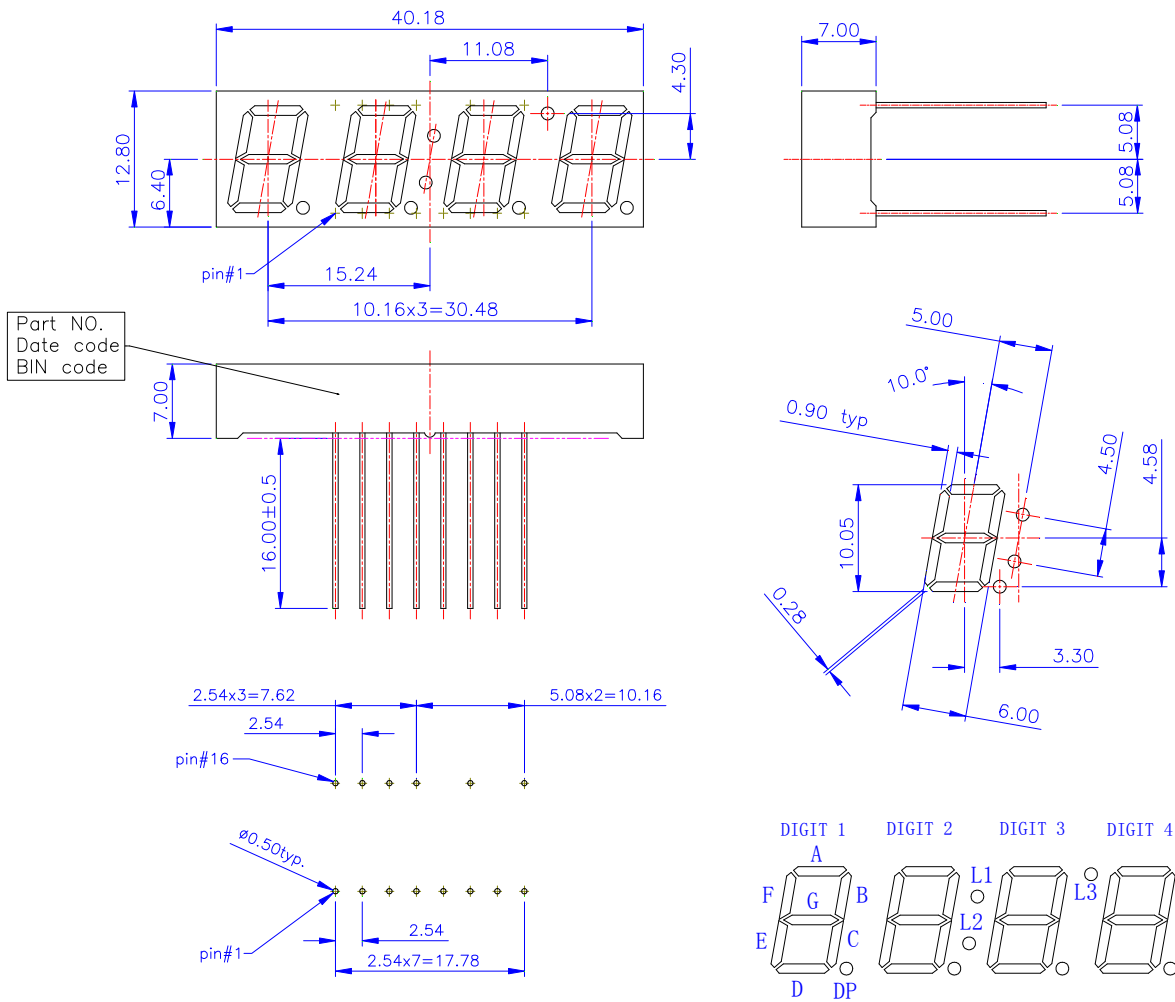
**DESCRIPTION**

The LTC-4727E-25J is a 0.4 inch (10 mm) digit height quadruple digit seven-segment display. This device utilizes red orange LED chips, which are made from GaAsP on a transparent GaP substrate, and has a black face and red segments.

DEVICE

PART NO.	DESCRIPTION
RED ORANGE	MULTIPLEX COMMON CATHODE RT. HAND DECIMAL
LTC-4727E-25J	

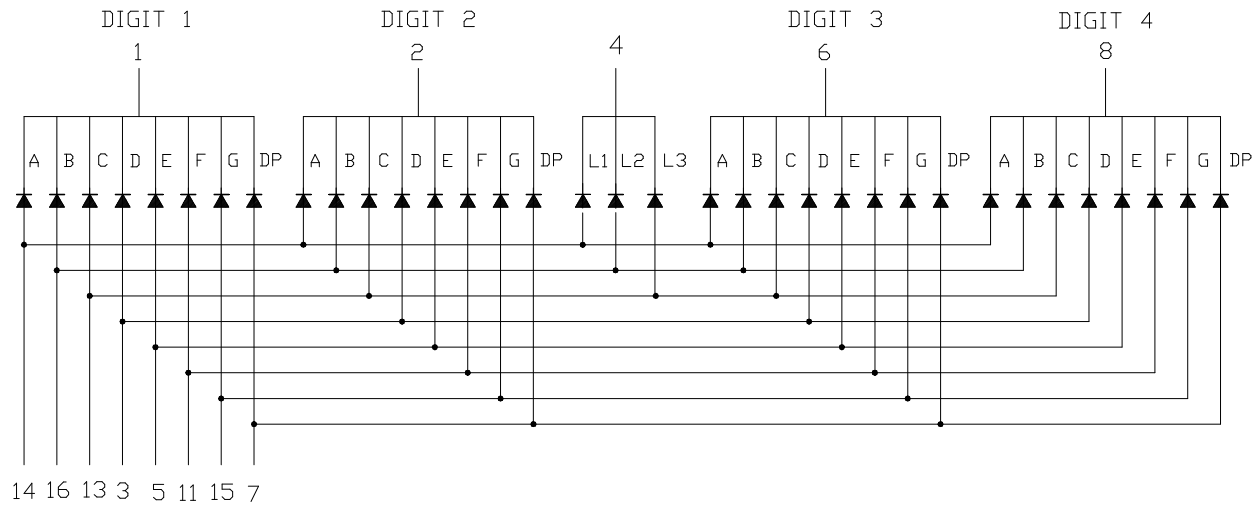
PACKAGE DIMENSIONS



NOTES:

1. All dimensions are in millimeters(inches).
Tolerance : ± 0.25 mm (0.01") unless otherwise noted.
2. Pin tip's shift tolerance is ± 0.4 mm

INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

No.	CONNECTION
1	COMMON CATHODE DIGIT 1
2	COMMON CATHODE DIGIT 2
3	ANODE D
4	COMMON CATHODE L1, L2, L3
5	ANODE E
6	COMMON CATHODE DIGIT 3
7	ANODE D.P.
8	COMMON CATHODE DIGIT 4
9	NO CONNECTION
10	NO PIN
11	ANODE F
12	NO PIN
13	ANODE C, L3
14	ANODE A, L1
15	ANODE G
16	ANODE B, L2

ABSOLUTE MAXIMUM RATING

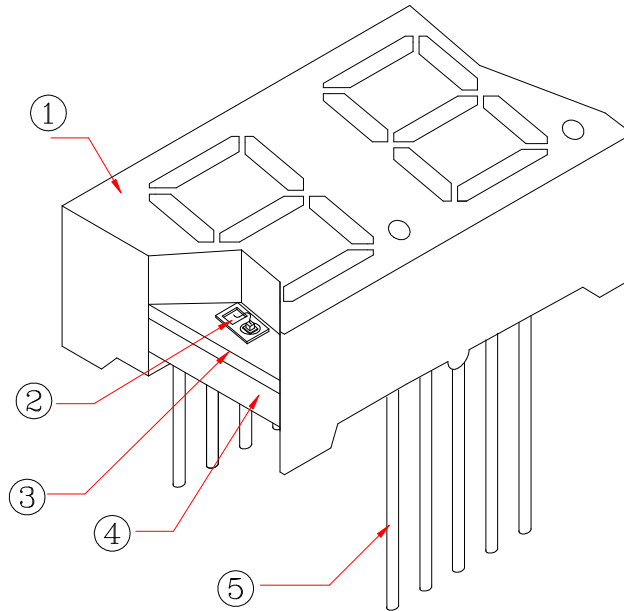
PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation Per Segment	75	mW
Peak Forward Current Per Segment (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current Per Segment	25	mA
Derating Linear From 25°C Per Segment	0.33	mA/°C
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35°C to + 105°C	
Storage Temperature Range	-35°C to + 105°C	
Solder Temperature: max 260°C for max 5sec at 1.6mm[1/16inch] below seating plane.		

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

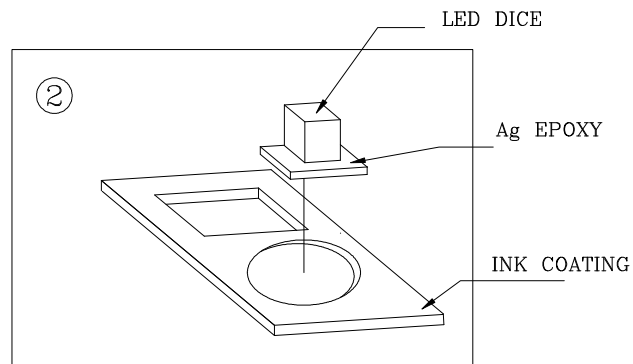
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I _v	800	2200		μcd	I _F =10mA
Peak Emission Wavelength	λ _p		630		nm	I _F =20mA
Spectral Line Half-Width	Δλ		40		nm	I _F =20mA
Dominant Wavelength	λ _d		621		nm	I _F =20mA
Forward Voltage Per Segment	V _F		2.0	2.6	V	I _F =20mA
Reverse Current Per Segment	I _R			100	μA	V _R =5V
Luminous Intensity Matching Ratio (Same Light Area)	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'Eclairage) eye-response curve.

CROSS SECTION AND MATERIAL LIST



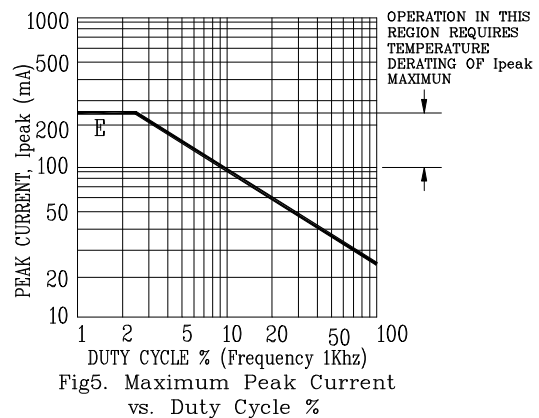
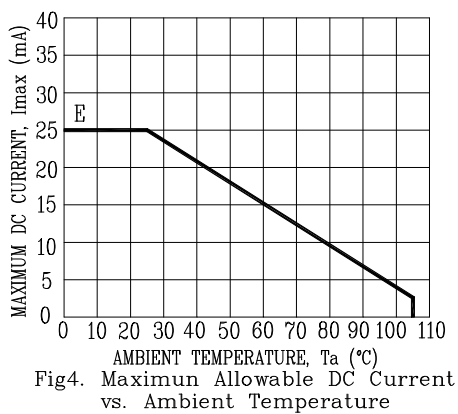
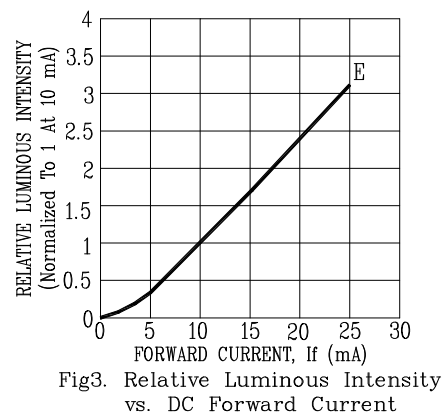
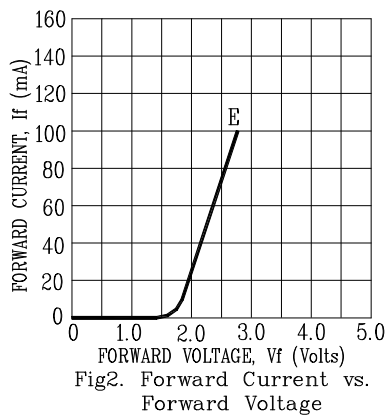
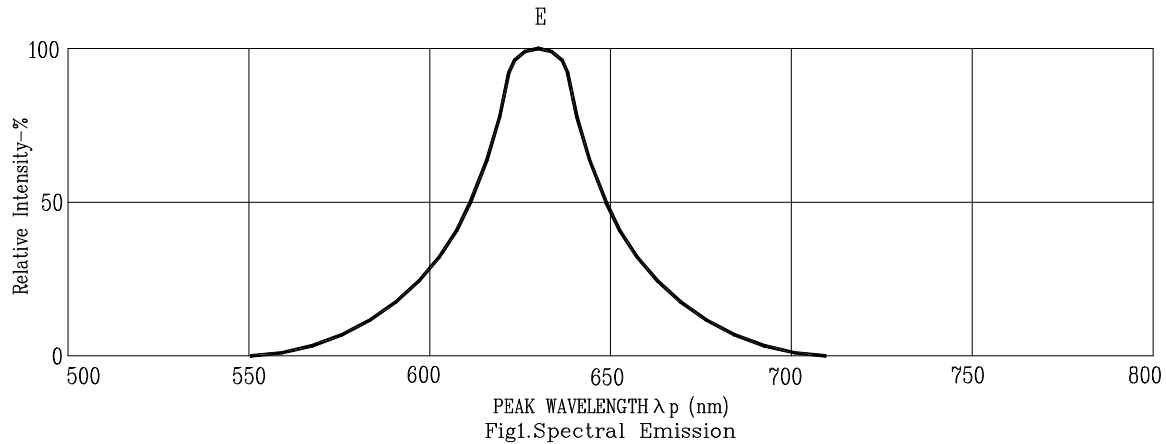
1. Ag CONDUCTIVE EPOXY USING
2. ON THE PCB, COATING A LAYER OF INK FOR CONTROLLING THE Ag EPOXY SCOPE



No.	Items	Material
1	Reflector	Polycarbonate
2	LED chip	GaAsP on GaP
3	PCB	Resion + Glass + Fiber
4	Epoxy	Resin
5	Round pin	Cu cover STEEL

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

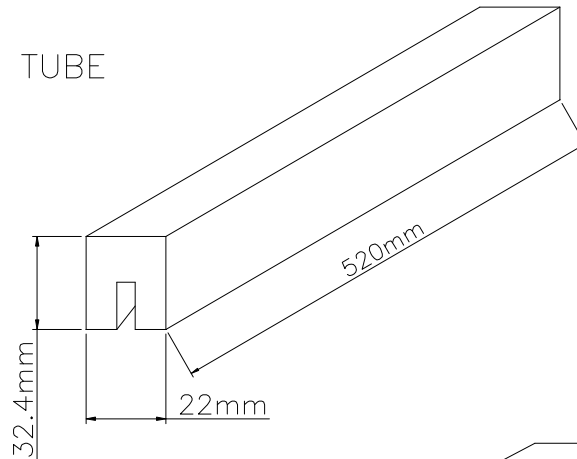
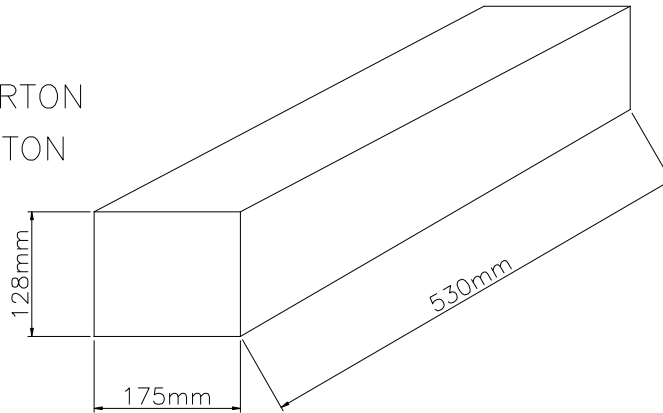
(25°C Ambient Temperature Unless Otherwise Noted)



NOTE: E=RED ORANGE

PACKING SPEC.

12 PCS/PACKING TUBE

30 TUBES/INNER CARTON
360 PCS/INNER CARTON4 INNER CARTON/OUTER CARTON
1440 PCS/OUTER CARTON