

FEATURES

- * 0.8 inch (20.3 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)

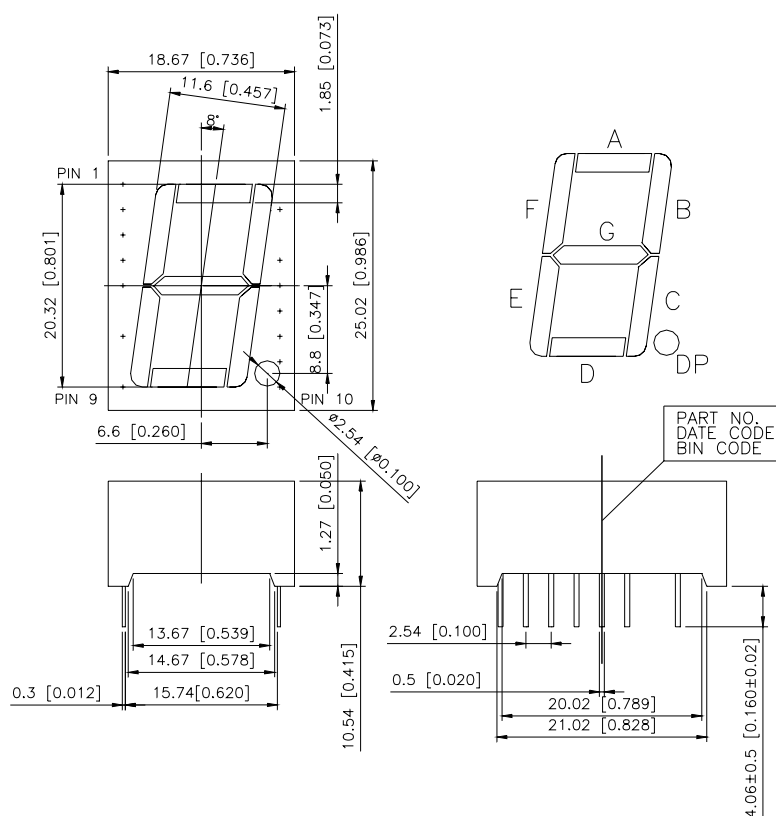
DESCRIPTION

The LTS-8309KE is a 0.8 inch (20.3 mm) digit height digit display.
This device uses AS-AlInGaP RED LED chips (AlInGaP epi on GaAs substrate). The display has red face and red segments.

DEVICE

PART NO.	DESCRIPTION
AlInGaP RED	Common Cathode
LTS-8309KE	

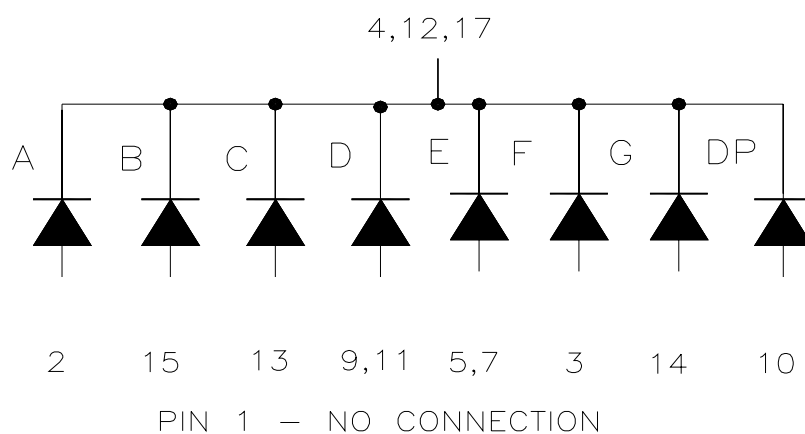
PACKAGE DIMENSIONS



NOTES: 1.All dimensions are in millimeters. Tolerances are ± 0.25 mm (0.01“) unless otherwise noted.

2. Pin tip's shift tolerance is +/- 0.4mm

INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

No.	CONNECTION
1	NO CONNECTION
2	ANNODE A
3	ANNODE F
4	COMMON CATHODE
5	ANNODE E
6	NO PIN
7	ANNODE E
8	NO PIN
9	ANNODE D
10	ANNODE DP
11	ANNODE E D
12	COMMON CATHODE
13	ANNODE C
14	ANNODE G
15	ANNODE B
16	NO PIN
17	COMMON CATHODE

ABSOLUTE MAXIMUM RATINGS

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation Per Segment	70	mW
Peak Forward Current Per Segment (Frequency 1Khz, 18% duty cycle)	90	mA
Continuous Forward Current Per Segment	2.6	mA
Forward Current Derating from 25 ⁰ C	0.28	mA/ ⁰ C
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35 ⁰ C to +105 ⁰ C	
Storage Temperature Range	-35 ⁰ C to +105 ⁰ C	
Soldering Conditions : 1/16 inch below seating plane for 3 seconds at 260 ⁰ C or temperature of unit (during assembly) not over max. temperature rating above		

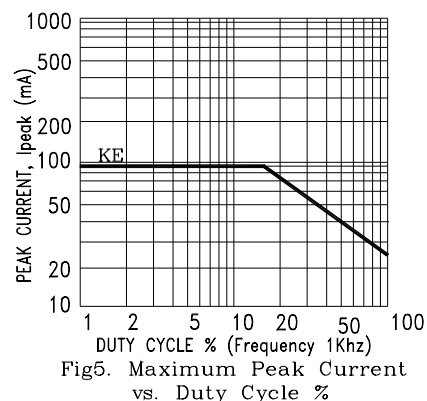
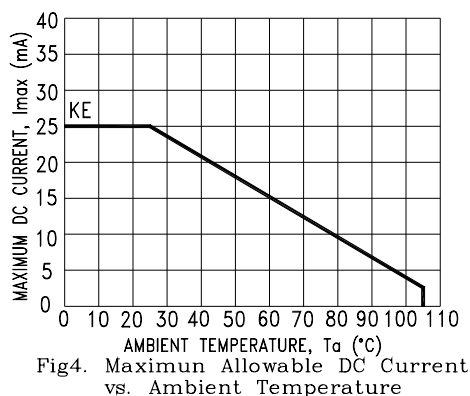
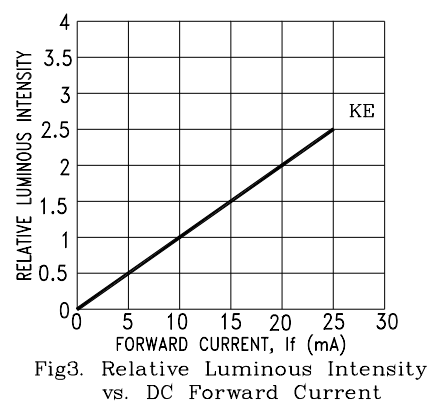
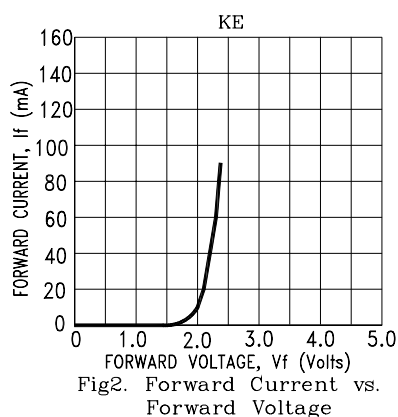
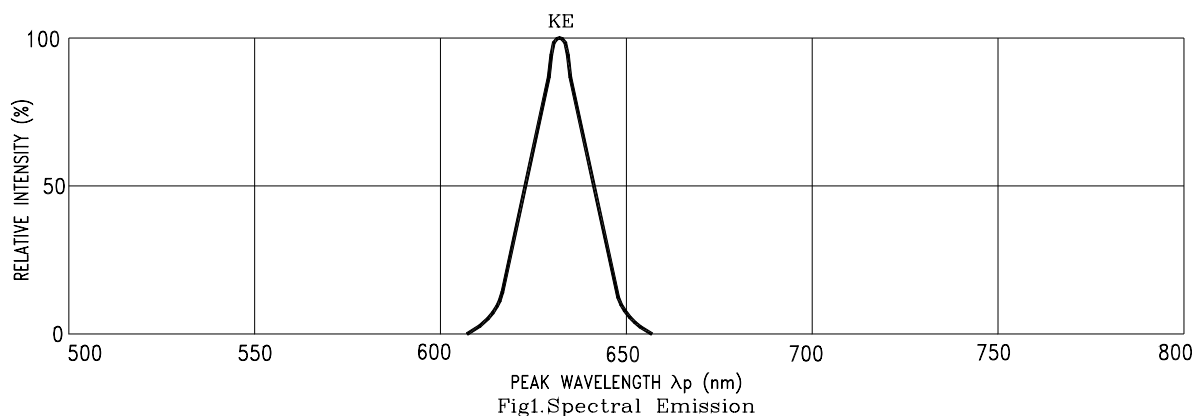
ELECTRICAL / OPTICAL CHARACTERISTICS

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITION
Average Luminous Intensity Per Segment	I _v	500	1400		μcd	IF = 1mA
Peak Emission Wavelength	λ _p		632		nm	IF = 20mA
Spectral Line Half-Width	Δλ		20		nm	IF = 20mA
Dominant Wavelength	λ _d		624		nm	IF = 20mA
Forward Voltage Per Segment	V _F		2.0	2.6	V	IF = 20mA
Reverse Current Per Segment	I _R			100	μA	V _R = 5V
Luminous Intensity Matching Ratio (Similar Light Area)	I _{v-m}			2 : 1		IF = 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)



NOTE : KE=AlInGaP RED