LITEON

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FEATURES

* 0.39 inch (10.0 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 * SMD DISPLAY * LEAD FREE PACKAGE (ACCORDING TO ROHS)

DESCRIPTION

The LTS-4812SKR-PA(L-930.507) is a 0.39 inch (10.0 mm) digit height single digit SMD display . This device uses AS-AlInGaP SUPER RED LED chips (AlInGaP epi on GaAs substrate). The display has dark gray face and white segments.

DEVICE

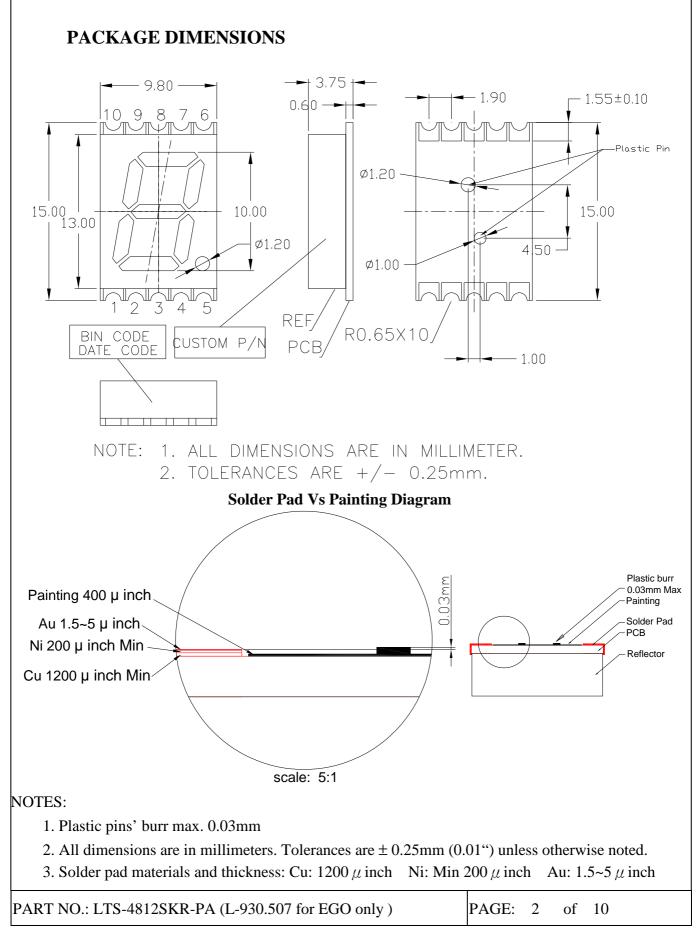
PART NO.	DESCRIPTION
AllnGaP RED	
LTS-4812SKR-PA	Common Anode
(L-930.507)	

PART NO.: LTS-4812SKR-PA (L-930.507 for EGO only)

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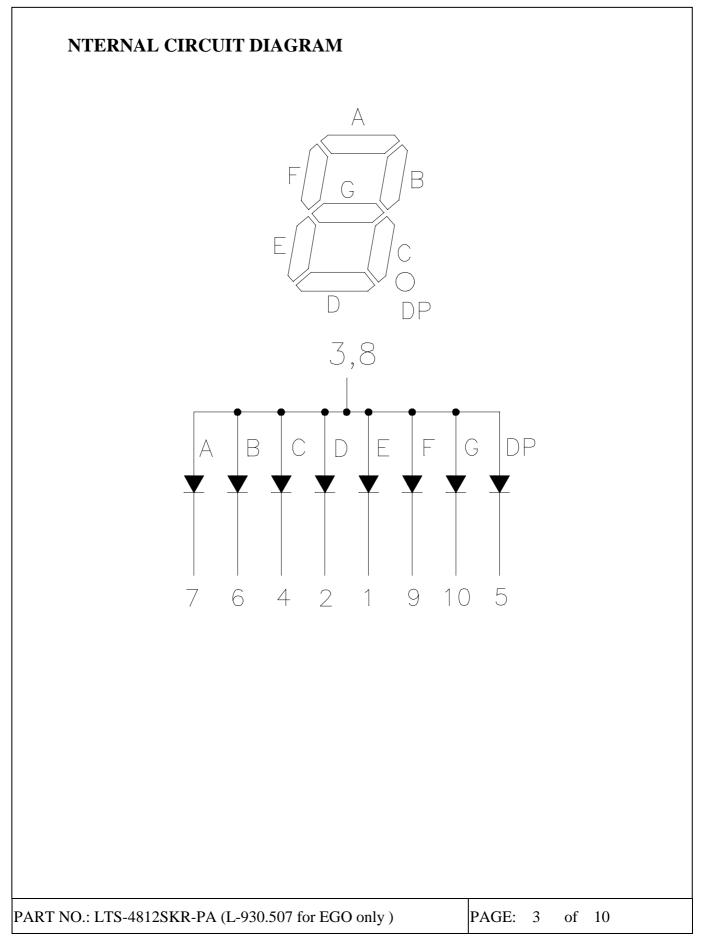


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PIN CONNECTION

No.	CONNECTION
1	CATHODE E
2	CATHODE D
3	COMMON ANODE
4	CATHODE C
5	CATHODE D.P.
6	CATHODE B
7	CATHODE A
8	COMMON ANODE
9	CATHODE F
10	CATHODE G

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ABSOLUTE MAXIMUM RATING AT Ta = 25°C

PARAMETER	MAXIMUM RATING	UNIT	
Power Dissipation Per Segment	70	mW	
Peak Forward Current Per Segment (Frequency 1Khz,10% duty cycle)	90	mA	
Continuous Forward Current Per Segment	25	mA	
Forward Current Derating from 25 ⁰ C	0.27	mA/ ⁰ C	
Reverse Voltage Per Segment	5	V	
Operating Temperature Range -40° C to $+105^{\circ}$ C			
Storage Temperature Range -40° C to $+105^{\circ}$ C			
Iron Soldering Conditions: 1/16 inch Below Seating Plane for 3 Seconds at 260 ⁰ C			

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta = 25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Peak Emission Wavelength	λp		639		nm	IF=2mA
Spectral Line Half-Width	Δλ		20		nm	IF=2mA
Dominant Wavelength	λd		631		nm	IF=2mA
Forward Voltage Per Segment	VF		2.05	2.6	V	IF=20mA
Reverse Current Per Segment	Ir			100	nA	V _R =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		IF=2mA

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

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LUMINOUS INTENSITY BIN SELECTIONS : IF=2mA (Unit : ucd)

(Only one BIN for each reel)

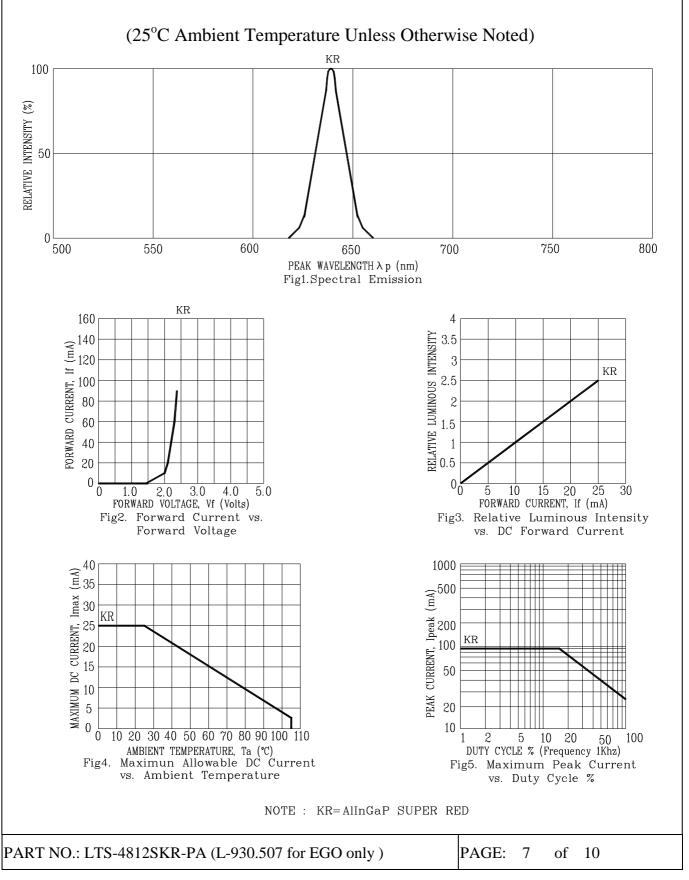
Rank	Min.	Max.
J2	1651	2100
K1	2101	2680
K2	2681	3400
L1	3401	4300

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TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

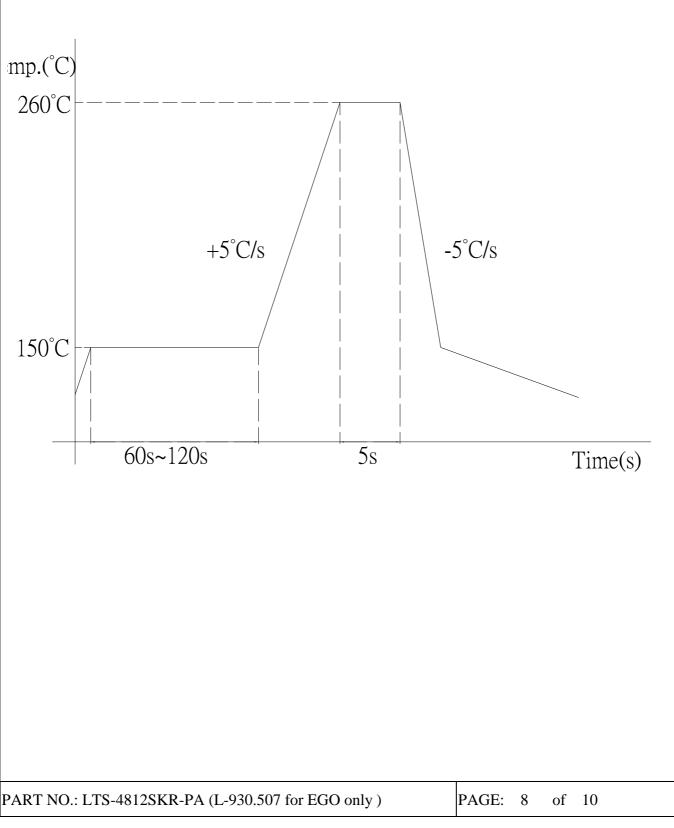




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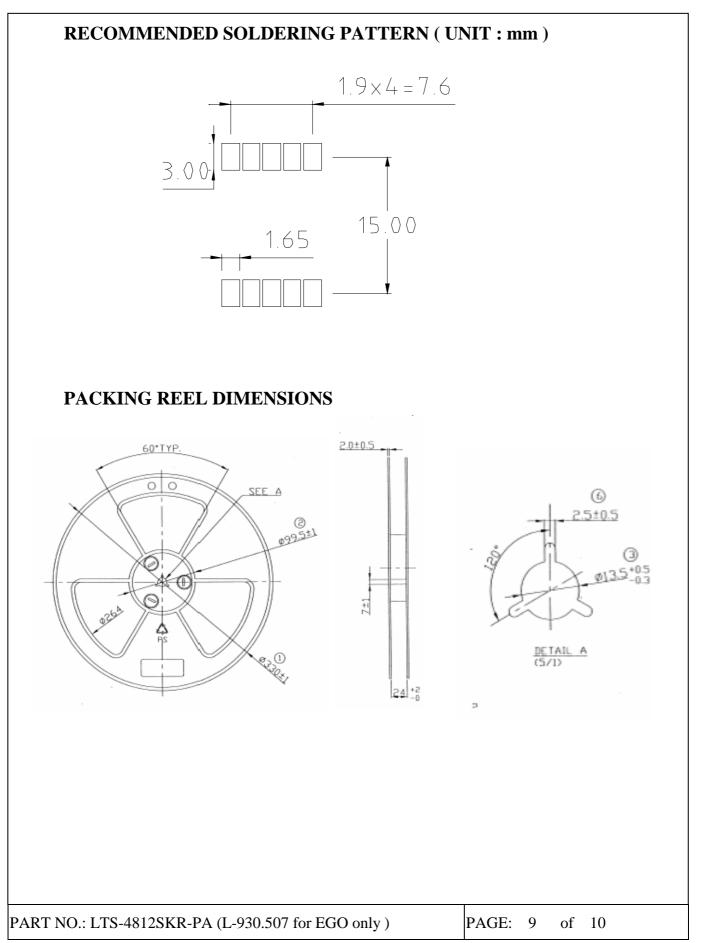
SMT SOLDERING INSTRUCTION

(Number of reflow process shall be less than 2 times, and cooling process to normal temperature is required between the first and the second soldering process)





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