



Spec No.: DS-30-98-384 Effective Date: 04/07/2000 Revision: -



BNS-OD-FC001/A4

LITE-ON Technology Corp. / Optoelectronics No.90,Chien 1 Road, Chung Ho, New Taipei City 23585, Taiwan, R.O.C. Tel: 886-2-2222-6181 Fax: 886-2-2221-1948 / 886-2-2221-0660 http://www.liteon.com/opto

LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

FEATURES

* 0.36 inch (9.2 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.

DESCRIPTION

The LTC-3654E is a 0.36 inch (9.2 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 gray face and white segments.

DEVICE

PART NO.	DESCRIPTION				
RED ORANGE	Multiplex Common Anode				
LTC-3654E	Rt. Hand Decimal				

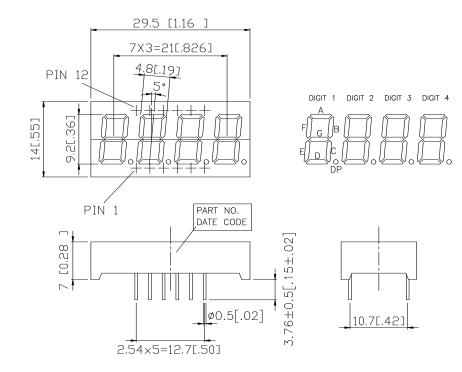
		PART	NO.:	LTC	-3654E
--	--	------	------	-----	--------

LITEON

LITE-ON ELECTRONICS, INC.

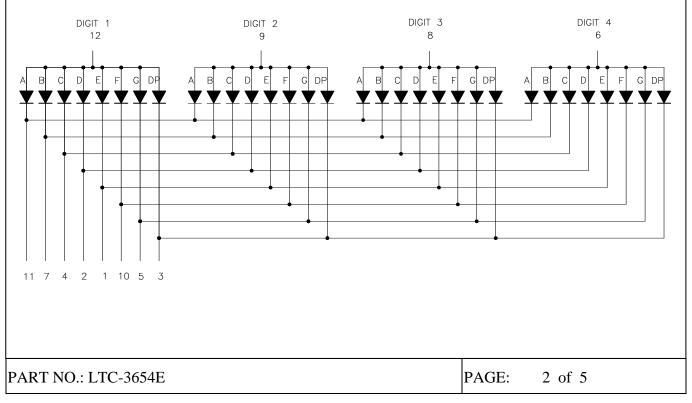
Property of Lite-On Only

PACKAGE DIMENSIONS



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

INTERNAL CIRCUIT DIAGRAM



BNS-OD-C131/A4



LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

PIN CONNECTION

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

PART NO.: LTC-3654E

LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

ABSOLUTE MAXIMUM RATING AT Ta=25°C

PARAMETER	MAXIMUM RATING	UNIT		
Power Dissipation Per Segment	75			
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 $+85^{\circ}$ C			
Storage Temperature Range	-35°C to +85°C			
Solder Temperature: max 260° C for max 3sec at 1.6mm below seating plane.				

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

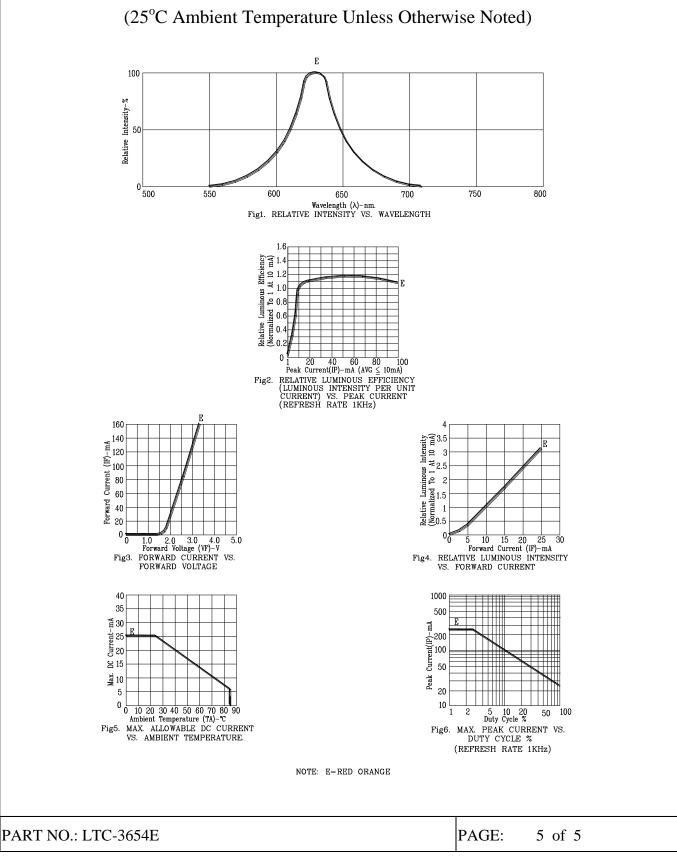
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	800	2000		μcd	IF=10mA
Peak Emission Wavelength	λp		630		nm	IF=20mA
Spectral Line Half-Width	Δλ		40		nm	IF=20mA
Dominant Wavelength	λd		621		nm	IF=20mA
Forward Voltage Per Segment	VF		2.0	2.6	V	IF=20mA
Reverse Current Per Segment	Ir			100	μΑ	V _R =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		IF=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.

LITEON

LITE-ON ELECTRONICS, INC. Property of Lite-On Only

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES



BNS-OD-C131/A4