

## Excellent Integrated System Limited

Stocking Distributor

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[Lumex, Inc.](#)  
[LDS-C5646RI](#)

For any questions, you can email us directly:  
[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

DATE	REVISIONS	REV	DRAWING NUMBER <b>LDS-C5646RI</b>	REV
			REPLACES PART# LDS-C546RI	

  

Dimensions shown in drawings:  
 Top view: 12.40 [0.488] (width), 17.10 [0.673] (height), PIN 10, PIN 6, PIN 1, PIN 5.  
 Side view: 8.00 [0.315] (total height), 4.50±0.75 [0.177±0.030] (segment height), 15.24 [0.600] (body length), 0.40 [0.016] (lead thickness).  
 Digit detail: 10.00\* (digit height), 7.90 [0.311] (digit width), 1.50 [0.059] (segment thickness), 14.20 [0.559] (digit length), DP (dot position).  
 Pin spacing: 2.54 [0.100] (pitch), 0.30 [0.012] (lead width), 10.16 [0.400] (total pin length).  
 Pin 1: 3.8 (width), COMMON CATHODE.

ELECTRO-OPTICAL CHARACTERISTICS  $T_A = 25^\circ\text{C}$   $I_f = 10\text{mA}$

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		660 (RED)		nm	
FORWARD VOLTAGE		1.8	2.3	$V_f$	
REVERSE VOLTAGE	5.0			$V_r$	$I_r = 100\mu\text{A}$
AXIAL INTENSITY		13,000		$\mu\text{cd}$	$I_f = 10\text{mA}$
EMITTED COLOR:	RED				
FONT COLOR:	GREY				
SEGMENT COLOR:	MILKY WHITE DIFFUSED				

  

LIMITS OF SAFE OPERATION AT 25°C PER CHIP

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	150	mA
STEADY CURRENT	30	mA
POWER DISSIPATION	100	mW
DERATE FROM 25°C	-1.2	mW/°C
OPERATING, STORAGE TEMP.	-20 TO +85	°C
SOLDERING TEMP.	+260	°C
2.0mm FROM BODY		3 SEC. MAX

\*  $t < 10\mu\text{s}$

**RELIABILITY NOTE**  
 OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.

UNLESS OTHERWISE SPECIFIED TOLERANCE IS  $\pm 0.25\text{mm}$  ( $\pm 0.010^*$ )

**LUMEX INCORPORATED**

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DATE: 2-6-98	DWN:	CHK'D:	APP'D:
SCALE: N/A			

0.56" SEVEN SEGMENT DISPLAY, 660nm RED,  
GREY FONT/WHITE DIFFUSED, COMMON CATHODE.

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