

FEATURES

- * 0.3 inch (7.4 mm) DIGIT HEIGHT
- * CONTINUOUS UNIFORM SEGMENTS
- * LOW POWER REQUIREMEN
- * EXCELLENT CHARACTERS APPEARANCE
- * HIGH BRIGHTNESS & HIGH CONTRAST
- * WIDE VIEWING ANGLE
- * SOLID STATE RELIABILITY
- * **LEAD-FREE PACKAGE**

DESCRIPTION

The LTC-3743P-R1 is a 0.3 inch (7.4 mm) digit height quadruple display. This device utilizes bright red LED chips, (GaP epi on GaP substrate), and has a black face and red segments.

DEVICE

PART NO.	DESCRIPTION
Bright Red	Multiplex Common Cathode Rt. Hand Decimal
LTC-3743P-R1	

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

PIN CONNECTION

NO.	CONNECTION	NO.	CONNECTION
1.	ANODE L3	13.	CATHODE UDP
2.	CATHODE (DIGIT 1)	14.	CATHODE DP2
3.	ANODE D	15.	ANODE UDP
4.	ANODE L2	16.	CATHODE DP1
5.	CATHODE (DIGIT 2)	17.	ANODE A
6.	CATHODE LC	18.	ANODE F
7.	ANODE LC	19.	ANODE B
8.	CATHODE (DIGIT 3)	20.	ANODE C
9.	ANODE DP1	21.	ANODE 1E
10.	CATHODE (DIGIT 4)	22.	ANODE G
11.	ANODE E	23.	ANODE L1
12.	ANODE DP2	24.	CATHODE L1,L2,L3

ABSOLUTE MAXIMUM RATING

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation Per Segment	40	mW
Peak Forward Current Per Segment (1/10 Duty Cycle, 0.1ms Pulse Width)	60	mA
Continuous Forward Current Per Segment	15	mA
Derating Linear From 25°C Per Segment	0.2	mA/°C
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35°C to +85°C	
Storage Temperature Range	-35°C to +85°C	
Solder Temperature: max 260°C for max 3sec at 1.6mm below seating plane.		

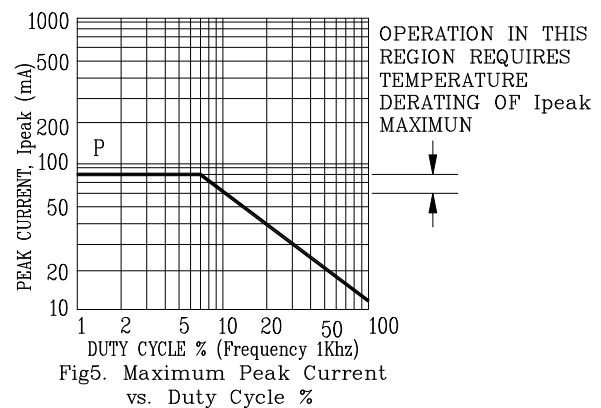
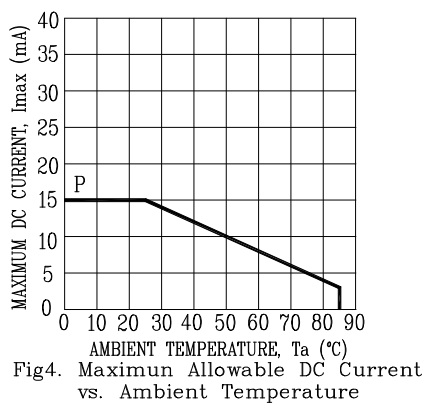
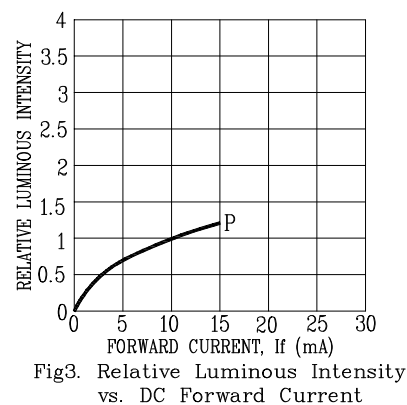
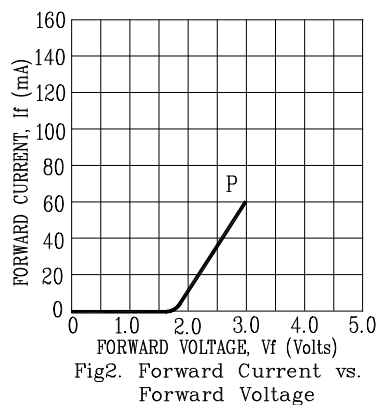
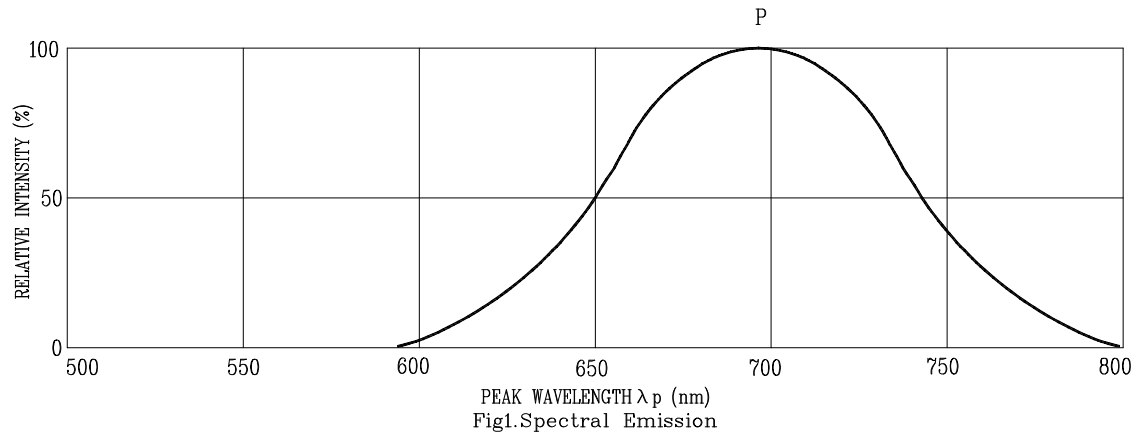
ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I _V	250	650		μcd	I _F =10mA
Peak Emission Wavelength	λ _p		697		nm	I _F =20mA
Spectral Line Half-Width	Δλ		90		nm	I _F =20mA
Dominant Wavelength	λ _d		657		nm	I _F =20mA
Forward Voltage Per Segment	V _F		2.1	2.6	V	I _F =20mA
Reverse Current Per Segment	I _R			100	μA	V _R =5V
Luminous Intensity Matching Ratio	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.

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)



NOTE : P=BRIGHT RED