

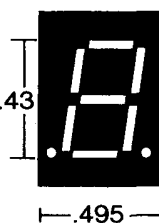


DISPLAYS

.43 inch (10.9mm), Single Digits

Features:

Colors: red, yellow, high efficiency red, and green, reduced segment to segment crosstalk on single digits, improved reliability, high efficiency, I.C. compatible, low current consumption.



Applications:

Automobiles; clocks, radios, calculators; communications equipment, instruments office machines, test equipment; numerical control equipment.

ACTUAL DIGIT SIZE	DEVICE NO.	COLOR	DESCRIPTION	I _L (MIN) PER SEGMENT (μ cd)	PKG. CODE
  	5082-7750 5082-7660 5082-7650 5082-7670	RED YELLOW HI-EFF RED GREEN	.43", Common Anode LH DP	150@20 mA 100@5 135@5 125@5	NB*
  	5082-7751 5082-7661 5082-7651 5082-7671	RED YELLOW HI-EFF RED GREEN	.43", Common Anode RH DP	150@20 mA 100@5 135@5 125@5	NB*
  	5082-7756 5082-7666 5082-7656 5082-7676	RED YELLOW HI-EFF RED GREEN	.43", Universal (CA, CC) Overflow ± 1 , RHDP	150@20 mA 100@5 135@5 125@5	NA*
  	5082-7760 5082-7663 5082-7653 5082-7673	RED YELLOW HI-EFF RED GREEN	.43", Common Cathode, RH DP	150@20 mA 100@5 135@5 125@5	NB*

ABSOLUTE MAXIMUM RATINGS AT 25°C

OPERATING RANGE -40°C TO $+85^{\circ}\text{C}$
 STORAGE TEMP. RANGE -40°C TO $+85^{\circ}\text{C}$
 PEAK FORWARD CURRENT PER SEG. OR D.P. 60mA
 DC FORWARD CURRENT PER SEG. OR D.P. 30mA
 LEAD SOLDERING TEMPERATURE 260°C for 3 sec.
 [1/16 inch (1.59mm) Below Seating Plane]

*CURRENT PRODUCTION HAS .020" SQ. LEADS. NATIONAL WILL BE PROVIDING A .010" x .020" LEAD DIMENSION IN THE FUTURE.



DISPLAYS

.43 inch (10.9mm), Single Digits Electrical/Optical Characteristics at 25°C

	UNITS		RED 5082— 7750 7756 7751 7760	YELLOW 5082— 7660 7666 7661 7663	HIGH EFF. RED 5082— 7650 7656 7651 7653	GREEN 5082— 7670 7676 7671 7673
PEAK WAVELENGTH	nm		655	583	635	565
DOMINANT WAVELENGTH	nm		645	585	626	572
LUMINOUS INTENSITY PER SEGMENT (Dig. Avg)	μcd @ mA	min typ.	150@20 mA 400@20	100@5 250@5	135@5 300@5	125@5 250@5
Forward Voltage per Segment or D.P.	Volts @ mA	typ. max.	1.6@20 2.0@20	2.2@20 2.5@20	2.0@20 2.5@20	2.2@20 2.5@20
Temp. Coefficient of VF	mV/°C		−2.0	−2.0	−2.0	−2.0
Maximum Reverse Current per Seg. or D.P. @ −3V	μA max		10	10	10	10
Response Time (nom) 10%-90%	ns		10	100	100	100

PINOUT				
	.43 INCH NUMERICS			.43 INCH OVERFLOW
	COMMON ANODE LEFT HAND DECIMAL	COMMON ANODE RIGHT HAND DECIMAL	COMMON CATHODE RIGHT HAND DECIMAL	UNIVERSAL OVERFLOW RIGHT HAND DECIMAL
PIN	5082—7750, 7660, 7650, 7670	5082—7751, 7661, 7651, 7671	5082—7760, 7663, 7653, 7673	5082—7756, 7666, 7656, 7676
1	CATHODE—A	CATHODE—A	ANODE—A	CATHODE—D
2	CATHODE—F	CATHODE—F	ANODE—F	ANODE—D
3	ANODE	ANODE	CATHODE	NO PIN
4	NO PIN	NO PIN	NO PIN	CATHODE—C
5	NO PIN	NO PIN	NO PIN	CATHODE—E
6	CATHODE—DP	NO CONN.	NO CONN.	ANNODE—E
7	CATHODE—E	CATHODE—E	ANODE—E	ANODE—C
8	CATHODE—D	CATHODE—D	ANODE—D	ANODE—DP
9	NO CONN.	CATHODE—DP	ANODE—DP	CATHODE—DP
10	CATHODE—C	CATHODE—C	ANODE—C	CATHODE—B
11	CATHODE—G	CATHODE—G	ANODE—G	CATHODE—A
12	NO PIN	NO PIN	NO PIN	NO PIN
13	CATHODE—B	CATHODE—B	ANODE—B	ANODE—A
14	ANODE	ANODE	CATHODE	ANODE—B
PACKAGE	NB	NB	NB	NA

