ASIAOPTO INDUSTRIAL LTD.

7 Segment Green LED - Single 4.0 Inch (100mm) Anode: 120,000 ucd

PRODUCT DESCRIPTION	
(1) 4.0 Inch (100.0mm) Digit Height	(5) Gray or black color background
(2) Low current operation	(6) Common Anode
(3) Excellent color and font characteristics	(7) RoHs Compliant Part
(4) Colors: White, blue, red, yellow and green	

Absolute Maximum Rating (Ta = 25^{0}C)

PARAMETER	RED	AMBER	GREEN	BLUE	WHITE	UNITS
DC Forward Current Per Segment	30	30	25	30	20	mA
Peak Current Per Segment (1)	70	50	50	25	25	mA
Avg. Forward Current (Pulse Operation) Per Segment	30	30	25	25	25	mA
Derating Linear From 25^{0}C Per Segment	0.3					mA/^{0}C
Reverse Voltage (2)	3					V
Operating Temperature	-25 to +85					^{0}C
Storage Temperature	-30 to +85					^{0}C

(1) Pulse conditions of 1/10 duty and 0.1msec width, for long operating life, max. of 20mA recommended
(2) Reverse biasing of the dot matrix is not recommend, will cause damage to the leds

Electro-optical Characteristics (Ta = 25^{0}C)

PART NUMBER	DICE MATERIAL (COLOR)	PEAK WAVELENGTH (nm)	MAX. REVERSE CURRENT / SEGMENT (µA)	VF (V) TYP	VF (V) MAX.	LUMINOUS INTENSITY / SEGMENT AVERAGE (IF = 10mA)
LCS-40012TUR11	AlInGaP Red	630	10	9.0 [1]	11.0	120,000 ucd
LCS-40012TB11	InGaN Blue	468	10	16.25 [2]	17.5	130,000 ucd
LCS-40012YG11	AlInGaP Green	568	10	9.0 [1]	11.0	120,000 ucd
LCS-40012UY11	AlInGaP Amber	590	10	9.0 [1]	11.0	120,000 ucd
LCS-40012TW11	InGaN White	5,500K	10	16.25 [2]	17.5	60,000 ucd

(1) Cathode DP Vf = 1.8V ONLY uses one led chip for red, yellow and green color.
(2) Cathode DP Vf = 3.3V ONLY uses one led chip for blue and white color.

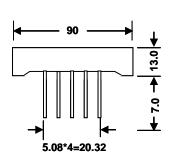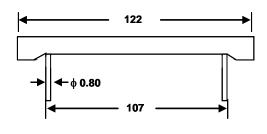## 7 Segment Green LED - Single 4.0 Inch (100mm) Anode: 120,000 ucd

DEVICE DIAGRAM

PIN NO.		PIN NO.	
1	Common Anode DIG. 1	6	Cathode B
2	Cathode E	7	Cathode A
3	Cathode D	8	Common Anode
4	Cathode C	9	Cathode F
5	Cathode DP [1]	10	Cathode G

(1) Cathode DP Vf = 1.8V for red, yellow and green and Vf = 3.3V for blue.