

### 5.3 Common Anode 0.50 Inch (12.7mm)

PRODUCT DESCRIPTION	
(1) 0.50 Inch (12.7mm) 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°C)

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

PART NUMBER	DICE MATERIAL (COLOR)	PEAK WAVELENGTH (nm)	MAX. REVERSE CURRENT / SEGMENT (uA)	VF (V) TYP	VF (V) MAX.	LUMINOUS INTENSITY / SEGMENT AVERAGE (IF = 20mA)
LEDA5014AUR11	AlGaAs / Red	660	10	1.8	2.3	35,000 ucd
LEDA5014TB11	InGaN / Blue	468	10	3.3	4.0	45,000 ucd
LEDA5014YG11	GaP / Green	568	10	1.9	2.3	35,000 ucd
LEDA5014UY11	AllnGaP / Amber	590	10	1.8	2.3	35,000 ucd
LEDA5014TW11	InGaN / White	5,500K	10	3.3	4.0	75,000 ucd

## DEVICE DIAGRAM

PIN NO.			
1	Cathode A2	10	Cathode DP
2	Cathode A1	11	Cathode M
3	Cathode J	12	Cathode L
4	Cathode H	13	Cathode C
5	Cathode F	14	Cathode G1
6	Cathode E	15	Cathode G2
7	Cathode N	16	Cathode B
8	Cathode D1	17	Cathode K
9	Cathode D2	18	Common Anode

