

ARGB Selection Guide (RGB+IC)

OPBC-OPP-FAE

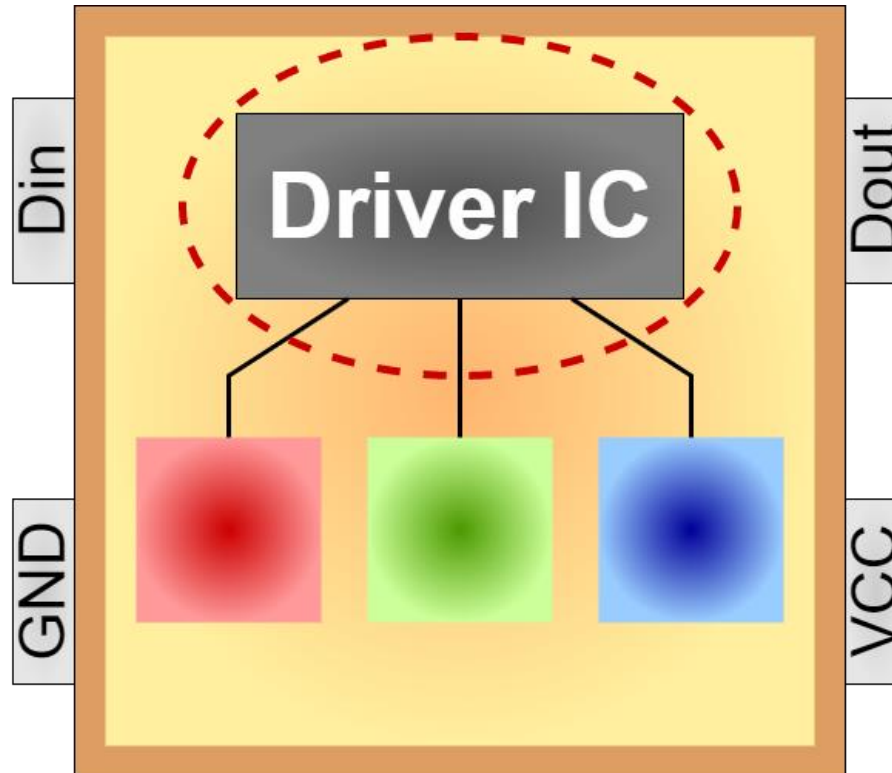
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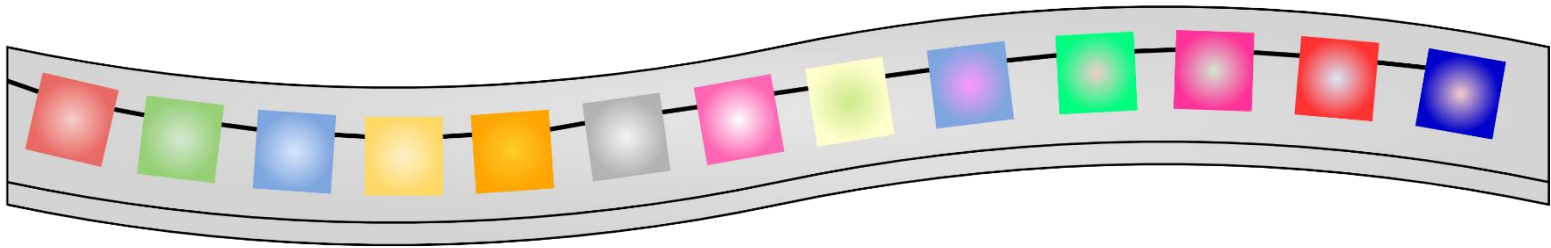
ARGB Introduction – Advantage(1/2)

- Each ARGB has a current driver IC.



ARGB Introduction – Advantage(2/2)

- User only need one signal wire to set each ARGB to different color on ARGB light strip.



- ARGB is easier to design and save layout space compared to traditional RGB LED.

ARGB Introduction – Features

- Reduce brightness and still keeping color resolution by adjust current gain.
- With malfunction bypass function, user can avoid ARGB light strip malfunction due to one broken ARGB.
- Support sleep mode for power-saving
- The newest ARGB support addressing each ARGB strips in parallel connection.

Selection Flow

Package Information

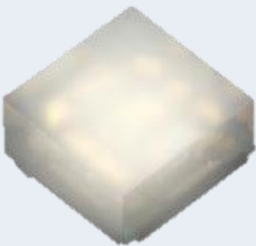
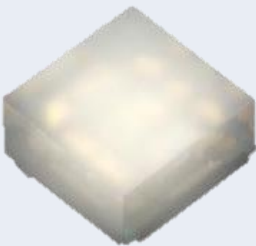
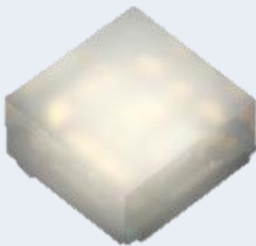
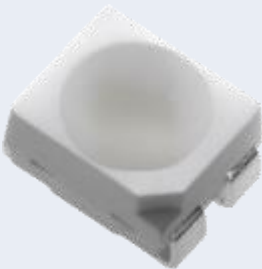
- Package information include
 - Package type
 - Package size
 - View angle

Function Information

- Function information include
 - ARGB feature comparison table

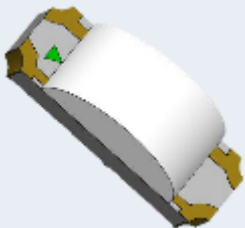
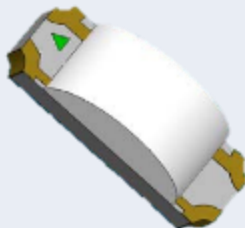
Package Information (1/2)



Top View	Type	B1010	B1414/3S1	B1414/3S2	19-C47
	Package				
	Size(L*W*H)	1.0*1.0*0.4	1.4*1.4*0.4	1.4*1.4*0.4	1.8*1.8*0.65
	View Angle	120	120	110	120
	Type	B1818	C3227	61-236	
	Package				
	Size(L*W*H)	1.8*1.8*0.65	3.2*2.7*1.8	5.0*5.0*1.6	
	View Angle	120	120	120	

Package Information (2/2)



Side View	Type	B2705	12-23C	B3010	C4516
	Package				
	Size(L*W*H)	2.7*0.55*0.5	3.0*1.0*1.5	3.0*1.0*1.5	4.5*1.6*1.7
	View Angle	130	130	130	120
	Type	C7024			
	Package				
	Size(L*W*H)	7*2.4*2.35			
	View Angle	120			

Function Information (1/3)



	TOP VIEW					
Type	B1010DWN3S2	B1010DWN3SA	B1414DWN3S1	B1414DWN3S2	B1414DWN3SA	19-C47/5V01
Size(L*W*H)	1.0*1.0*0.4	1.0*1.0*0.4	1.4*1.4*0.4	1.4*1.4*0.4	1.4*1.4*0.4	1.8*1.8*0.65
Current	5mA	5mA	12mA	12mA	5mA	5mA
View Angle	120	120	120	110	120	120
R/G/B(mcd)	80/230/50	80/230/50	280/860/170	280/1060/450	120/350/70	70/180/40
Order	RGB	RGB	BGR	RGB	RGB	RGB
Current Adjustable	N	Y	N	N	Y	N
Malfunction Bypass	N	Y	N	N	Y	N
Sleep Mode	N	Y	N	N	Y	N
Parallel Addressable	N	N	N	N	N	N

Function Information (2/3)



	TOP VIEW				
Type	19-C47A/5V02/2T	19-C47A/5V01/2T	B1818/5V01	C3227TDWN3S1	61-236/A05
Size(L*W*H)	1.8*1.8*0.65	1.8*1.8*0.65	1.8*1.8*0.65	3.2*2.7*1.8	5.0*5.0*1.6
Current	20mA	12mA	20mA	12mA	5mA
View Angle	120	120	120	120	120
R/G/B(mcd)	460/1400/280	280/1060/450	425/1350/270	376/1119/273	185/590/148
Order	RGB	GRB	BGR	GRB	RGB
Current Adjustable	N	N	Y	N	N
Malfunction Bypass	N	N	N	N	N
Sleep Mode	N	N	N	N	N
Parallel Addressable	N	N	N	N	N

Function Information (3/3)



	SIDE VIEW					
Type	12-23C/5V01	12-23C/5V30	B3010PWN3S1	B3010PWN3S2	C4516SDWN3S1	C7024SDWN3S1
Size(L*W*H)	3.0*1.0*1.5	3.0*1.0*1.5	3.0*1.0*1.5	3.0*1.0*1.5	4.5*1.6*1.7	7*2.4*2.35
Current	5mA	5mA	5ma/12mA	12mA	20mA	18mA
View Angle	130	130	130	130	120	120
R/G/B(mcd)	47/93/38	47/93/38	250/538/106	270/530/130	785/1960/495	785/1960/495
Order	RGB	GRB	GRB	GRB	RGB	RGB
Current Adjustable	N	N	N	Y	N	N
Malfunction Bypass	N	N	N	N	N	N
Sleep Mode	N	N	N	Y	N	N
Parallel Addressable	N	N	N	Y	N	N