

For 3A switches		3AXXX (for 1C/1H)				2BXXX		
Colour		B	G	Y	R	G	Y	R
Colour Codes		00	20	40	80	20	40	80
Absolute Maximum Ratings (Ta=25°C)								
Power	mW	105	100	60	100	75	60	60
Current forward	mA	30	30	20	30	20	20	20
Forward peak current	mA	150	120	80	120	60**	60**	60**
Voltage reverse	V	5	5	5	5	3	3	3
Operating temperature	°C	-40 - +85			-25 - +85			
Storage temperature	°C	-40 - +85			-30 - +100			
Soldering temperature	°C	260/5 sec.			260 for max. 5 sec.			
Electrical-Optical Characteristics (Ta=25°C)								
Voltage forward	Typ. V	3.8	2.1*	2.1*	2.0*	2.1	2.1	2.0
	Max. V	4.5	2.8*	2.8*	2.8*	3.0	3.0	3.0
Current reverse (VR = 5V)	µA	10	100	100	100	10	10	10
Wave length	nm	466	565	585	630	563	585	650
Spread	Δnm	30	30	35	40	40	40	40
Spread angle	degree	40	90	90	90	45	45	45
Luminous Intensity	Min. mcd	4	0.7	1.7	1.1	9.0	5.6	5.6
	Typ. mcd	10	2.5	5.6	3.7	25	16	16
Orientation	The longer pin is the anode, the shorter is the cathode							

*If = 20mA, **Pulse width 1ms Duty cycle 1:5

For 3F switches		3FXXX (for 1E-1F-1N-1Q-1R-1S-1X)						3FXXX (for 1K-1T-1U-1V-1W-1WD)					
Colour		B	G	Y	W	R	G/Y	R/G	R/Y	G	Y	R	
Colour Codes		00	20	40	60	80	2040	8020	8040	24	45	89	
Absolute Maximum Ratings (Ta=25°C)													
Power	mW	105	70	60	114	60	120	120	120	60	130	80	
Current forward	mA	30	20	20	30	20	25	25	25	25	40	30	
Forward peak current	mA	200	60**	60**	100	60**	150	150	150	100	500	100	
Voltage reverse	V	5	3	3	5	3	5	5	5	5	12	5	
Operating temperature	°C	-25 - +85			-40 - +85		-25 - +85		-40 - +85		-40 - +85		-55 - +100
Storage temperature	°C	-30 - +100			-40 - +100		-30 - +100		-40 - +85		-40 - +85		-55 - +100
Soldering temperature	°C	260 for max. 5 sec.			260 for max. 2 sec.		260 for max. 5 sec.		260 for max. 2 sec.		300 for max. 3 sec.		
Electrical-Optical Characteristics (Ta=25°C)													
Voltage Forward	Typ. V	2.1	2.1	2.1	3.3	2.0	2.1	2.1	2.1	2.0*	2.3***	2.0***	
	Max. V	2.8	3.0	3.0	3.8	3.0	2.8	2.8	2.8	2.4*	2.5***	2.4***	
Current reverse (VR = 5V)	µA	2	10	10	0.01	10	2	2	2	10	10	10	
Wave length	nm	460	563	585	NA	650	565/590	625/565	625/590	570	587	633	
Spread	Δnm	40	40	40	NA	40	35	35	35	10	45	16	
Spread angle	degree	20	45	45	34	45	60	60	60	100	90	55	
Luminous Intensity	Min. mcd	20	9.0	5.6	280	5.6	8	8	8	70****	71****	100****	
	Typ. mcd	25	25	16	600	16	25	25	25	20****	112****	160****	
Orientation	The longer pin is the anode, the shorter is the cathode. For bicolor LEDs the anode for the first colour (ex. 2080) is the longer pin.												

If = 50mA, *Luminous Flux mlm

For 4A/4F switches		illumeC™ LEDs specifications				
Colour		B	G	Y	W	R
Colour Codes		01	22	42	61	82
Absolute Maximum Ratings (Ta=25°C)						
Power	mW	60	65	65	80	65
Current forward	mA	20	25	25	15	25
Forward peak current	mA	150	150	100	200	100
Voltage reverse	V	5	12	12	5	12
Operating temperature	°C	-30 - +85				
Storage temperature	°C	-30 - +85				
Soldering temperature	°C	245 for max. 10 sec.				
Electrical-Optical Characteristics (Ta=25°C)						
Voltage forward	Typ. V	3.35	2.2	2	3.05	2
	Max. V	3.5	2.5	2.5	3.2	2.5
Current reverse (VR = 5V)	µA	0.01	0.02	0.01	0.01	0.01
Wave length	nm	470	570	588	n.a.	633
Spread	Δnm	n.a.	30	16	n.a.	16
Spread angle	degree	145	160	160	138	160
Luminous Intensity	Min. mcd	30	28	112	28	112
	Typ. mcd	35	70	150	35	150
Optical Intensity	Lm/w	4				2.5

B= Blue, G= Green, Y= Yellow, R= Red, W= White, G/Y= Green/Yellow, R/G= Red/Green, R/Y= Red/Yellow
 Specifications are subject to change without notice.