

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	65	80	2040	8020	8040	24	45	87		
<b>Absolute Maximum Ratings</b>	(Ta=25°C)													
Power	mW	105	70	60	120	60	120	100	120	60	130	120		
Current forward	mA	30	20	20	25	20	25	30	25	25	40	50		
Forward peak current	mA	200	60**	60**	100	60**	150	120	150	60	500	200		
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		-55/+100		-40/+85	
Storage temperature	°C	-30/+100			-40/+100		-30/+100		-40/+85		-55/+100		-40/+100	
Soldering temperature	°C	260 for max 5 sec					260 for max 2 sec			300 for max 3 sec			260 for max 5 sec	
<b>Electrical-Optical Characteristics</b>	(Ta=25°C)													
Voltage forward	Typ. V	2.1	2.1	2.1	3.8	2.0	2.1	2.0	2.1	2.0*	2.3***	2.0***		
	Max. V	2.8	3.0	3.0	4.3	3.0	2.8	2.6	2.8	2.4*	2.5***	2.4***		
Current reverse (V <sub>R</sub> =5V)	µA	2	10	10	50	10	2	2	2	10	10	10		
Wave length	nm	460	563	585	NA	650	565/590	630/565	625/590	570	587	624/632		
Spread	Δnm	40	40	40	NA	40	35	35	35	10	45	20		
Spread angle	degree	20	45	45	25	45	60	200	60	100	90	40		
<b>Luminous Intensity</b>	Min. mcd	20	9.0	5.6	630	5.6	8	2.2	8	70****	71****	400****		
	Typ. mcd	25	25	16	1000	16	25	4.8	25	20****	112****	800****		
Orientation	The longer pin is the anode, the shorter is the cathode. For bicolour LEDs the anode for the first colour (ex. 2080) is the longer pin.													

\*\*Pulse width 1ms Duty cycle 1:5, \*\*\*/F =50mA, \*\*\*\* Luminous Flux mlm

B=Blue, G=Green, Y=Yellow, R=Red, W=White

Specifications are subject to change without notice.