

Specification Change Notice

KA Series Surface-mounted illuminating Switch【LED color: Multicolor(22)】

We would like to inform you that specification of LED color : Multicolor(22) will be changed after September 1, 2014. No change in external dimensions and part number. The details are as follows.

●LED ratings Before Change

Item	Color	Full-face LED lighting (Ta=25°C)		
		Multicolor(22)		
		Red	Super green	Super blue
Max. operating current I _{FM} (mA)		30	30	30
Maximum allowable loss (mW)		90	120	120
DC backward voltage (V)		5	-	-
Forward voltage V _F (V)(standard values)※		2.1	3.0	2.9
Dominant wavelength λ _d (nm)※		622	527	472
Forward current under the conditions of the above-mentioned ※mark(mA)		24	22	12
Conditions when pulse is lit	Pulse width PW (μs)	10 ³	10 ³	10 ³
	Duty ratio D _R	20 ⁻¹		
	Allowable forward current for pulse I _{FP} (mA)	100	100	100

●LED ratings After Change

Item	Color	Full-face LED lighting (Ta=25°C)		
		Multicolor(22)		
		Red	Super green	Super blue
Max. operating current I _{FM} (mA)		50	35	25
Maximum allowable loss (mW)		127	124	88.7
DC backward voltage (V)		5	-	-
Forward voltage V _F (V)(standard values)※		2.2	3.2	3.2
Dominant wavelength λ _d (nm)※		622	530	468
Forward current under the conditions of the above-mentioned ※mark(mA)		20	20	20
Conditions when pulse is lit	Pulse width PW (μs)	10 ⁴	10 ⁴	10 ⁴
	Duty ratio D _R	10 ⁻¹		
	Allowable forward current for pulse I _{FP} (mA)	150	110	80

●Reference external resistance values Before Change

Button size	Color Voltage	Mutlicolor (22)		
		Red	Super green	Super blue
17.4 square	5 V	1.1 kΩ 1/16W	1.3 kΩ 1/16W	1.1 kΩ 1/16W
	12 V	3.6 kΩ 1/16W	5.1 kΩ 1/16W	4.3 kΩ 1/16W
	24 V	8.2 kΩ 1/4W	11 kΩ 1/8W	10 kΩ 1/8W
	Current value (reference value)	3	2	2
15 square	5 V	1.3 kΩ 1/16W	1.5 kΩ 1/16W	1.2 kΩ 1/16W
	12 V	4.3 kΩ 1/16W	5.6 kΩ 1/16W	4.7 kΩ 1/16W
	24 V	9.1 kΩ 1/8W	13 kΩ 1/8W	11 kΩ 1/8W
	Current value (reference value)	2.5	1.5	2
12 square	5 V	1.6 kΩ 1/16W	2.2 kΩ 1/16W	1.3 kΩ 1/16W
	12 V	5.1 kΩ 1/16W	7.5 kΩ 1/16W	5.1 kΩ 1/16W
	24 V	11 kΩ 1/8W	18 kΩ 1/16W	12 kΩ 1/8W
	Current value (reference value)	2	1	2



After Change

Mutlicolor (22)		
Red	Super green	Super blue
1.5 kΩ 1/16W	1.2 kΩ 1/16W	1.8 kΩ 1/16W
4.7 kΩ 1/16W	5.1 kΩ 1/16W	6.8 kΩ 1/16W
10 kΩ 1/8W	12 kΩ 1/8W	16 kΩ 1/16W
2.2	1.8	1.4
1.6 kΩ 1/16W	1.5 kΩ 1/16W	2 kΩ 1/16W
5.1 kΩ 1/16W	6.2 kΩ 1/16W	8.2 kΩ 1/16W
11 kΩ 1/8W	15 kΩ 1/16W	18 kΩ 1/16W
2	1.4	1.2
2 kΩ 1/16W	1.8 kΩ 1/16W	2.4 kΩ 1/16W
6.2 kΩ 1/16W	8.2 kΩ 1/16W	10 kΩ 1/16W
13 kΩ 1/8W	18 kΩ 1/16W	22 kΩ 1/16W
1.7	1.2	1

Please be sure to use the appropriate resistor.