Specification Change Notice

VD LCD Display Pushbutton Switch【LED】

We would like to inform you that specification of LED（Super Blue & Super Green）
for external resistor type will be changed after October 1, 2009. The details are as follows.
(LED code: 14 =Super Blue, 18=Super Green)

EXTERNAL RESISTOR Mono-Color (Super Blue & Super Green)

SB=Super Blue, SG=Super Green

Until September 30,2009	5V		12V・24V	
	Mono-Color(Super)		Mono-Color(Super)	
	SB	SG	SB	SG
Max. operating current I_{FM}(mA)	40	40	20	20
DC reverse voltage V_R(V)	5	5	10	10
Forward voltage V_F(V) I_F=20	3.2	3.2	6.4	6.4
Recommended operating current I_F(mA)	26	26	13	13
Current Reduced Factor (Over 25℃ working Temperature)	0.33mA/℃(DC) 1.6mA/℃(PULSE)			

After October 1, 2009	5V		12V・24V	
	Mono-Color(Super)		Mono-Color(Super)	
	SB	SG	SB	SG
Max. operating current I_{FM}(mA)	40	40	20	20
DC reverse voltage V_R(V)	5	5	10	10
Forward voltage V_F(V) I_F=5	2.9	3.1	5.8	6.2
Recommended operating current I_F(mA)	26	26	13	13
Current Reduced Factor (Over 30℃ working Temperature)	0.58mA/℃(DC) 2.9mA/℃(PULSE)		0.29mA/℃(DC) 1.45mA/℃(PULSE)	

Switches are normally fitted with internal resistors to operate on 5, 12, 24V DC supply.

In case of non-resistor type, suitable external current limiting resistors must be installed as shown by the table and formula.

The value of the series resistor for other voltage use can be determined by the formula

$$R=\frac{Vcc-VF}{IF}$$

Vcc : Supply Voltage
VF : Forward Voltage
IF : Forwad Current

Pulse Lighting : Pulse Width Pw=100μS Duty Ratio $DR=10^{-1}$ I_{FM}=100mA