

## Change Notice

### Life of OLED Displays Now 30,000 Hours



Type of Change:

- Engineering     Part Number  
 Product         Appearance

The life of the OLED displays for the IS series SmartSwitch pushbuttons and displays will be doubled from 15,000 to 30,000 hours.

At the same time, the power consumption of the OLED displays has been reduced by 30%.

**This change will affect the following products:**

**ISC15ANP4** OLED 64 x 48 pushbutton, **ISC01P** OLED 52 x 46 display

Change of initialization parameters required; no change to outer dimensions

Operating Life (OLED Display)	
Before Change	After Change
15,000 hours @ 40% illumination	30,000 hours @ 40% illumination

Power Consumption		(Temperature at 25°C, V <sub>DD</sub> = 2.8V, V <sub>CC</sub> = 16.0V)				
Items	Symbols	Before Change		After Change		Unit
		typ.	max.	typ.	max.	
All-Pixels-On Mode *Drive System Power Current	I <sub>CC1</sub>	5.5 (3.5)	7.0 (4.5)	3.8 (2.4)	4.6 (2.9)	mA
All-Pixels-On Mode *Logic/IF System Power Current	I <sub>DD1</sub>	0.16	0.2	0.16 (0.15)	0.19 (0.18)	mA

( ) value for display module

Optical Characteristics				(Temperature at 25°C, Initial Value: 87 x 0F)			
Items		Before Change			After Change		
		Min	Typical	Max	Min	Typical	Max
White Color Coordinate	(x)	0.27	0.31	0.35	0.26 (0.25)	0.30 (0.29)	0.34 (0.33)
	(y)	0.30	0.35	0.40	0.32 (0.31)	0.37 (0.36)	0.42 (0.41)
Red Color Coordinate	(x)	0.60	0.64	0.68	0.63	0.67	0.71
	(y)	0.31	0.35	0.39	0.29	0.33	0.37
Green Color Coordinate	(x)	0.26	0.30	0.34	0.19	0.23	0.27
	(y)	0.59	0.63	0.67	0.61 (0.60)	0.65 (0.64)	0.69 (0.68)
Blue Color Coordinate	(x)	0.10	0.14	0.18	0.10	0.14	0.18
	(y)	0.12	0.18	0.24	0.14	0.20	0.26

( ) value for display module

#### Availability

Change will be effective with May 2010 production.