

# IA (Industrial Appliance) System Solution

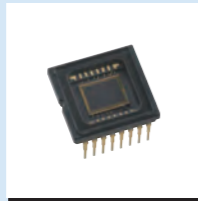
Jan. 31, 2012

## Input/Output (Including UI, Sensors)

For color image input

### ■ CCD image sensor for surveillance cameras

- Industry's highest level of sensitivity and industry's lowest level of smear ratio



For operation detection

### ■ Distance measuring sensor

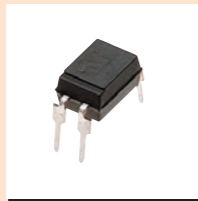
- Compact, power-source drive compatible (GP2Y0D810Z0F)
- Distance-measuring type (detecting distance: 10 cm)



For insulation of and transfer between high- and low-voltage sides of power supply

### ■ Photocoupler compliant with safety standards

Safety standard approved / compliant



## Display

For color image input

### ■ Advanced Super V LCD module

<Advanced Super V LCD>

- Wide 176° vertical and horizontal viewing angle



<Strong LCD>

- Superior resistance against impact, vibration, and temperature change



For LCD backlight

### ■ LED driver

- A lineup of LED drivers necessary for backlights in LCDs ranging from small- to large-size



## Power Supply

For circuit voltage stabilization

### ■ Low power-loss voltage regulator

- Compact
- Compatible with ceramic capacitors



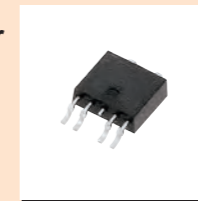
### ■ CMOS chopper regulator (Bootstrap system)

- High efficiency: TYP. 88%
- Switching current: MAX. 1.5 A



### ■ Compact chopper regulator

- PWM chopper regulator
- Oscillation frequency: TYP. 300 kHz



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