

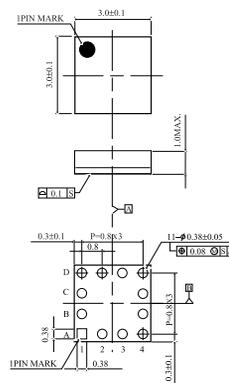
Communication ICs

# Data Formatter IC for Infrared Remote Control System BU7876GLS

### Description

BU7876GLS is an IR remote control data formatter IC for cellular phones. Carrier frequency, each length of Head part, Data part, and End part can be set up flexibly. Therefore, it is enabled to generate remote control data format of major consumer electronics manufactures. This IC adopts I<sup>2</sup>C BUS interface as serial interface.

### Dimension (Unit : mm)



FLGA12V3

### Features

- Configurable the carrier frequency
- Configurable the length of header
- Configurable the data length of Hi and Lo
- Configurable the length of End part
- Configurable the length of output data bit
- Enabled to manage frame
- Enabled to transfer data continually
- The function of interrupt generation
- I<sup>2</sup>C Bus interface(Fast-mode support)
- Enabled to input TCXO output directly
- Power supply voltage: 2.4V to 3.3V (Typ.3.0V)

### Electrical characteristics

(Unless otherwise noted; Ta=25°C, VDD=3.0V, GND=0V, CLKI=16.128MHz)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Supply current 1	IDD1	—	0.1	3	μA	Set Pwr=0
Supply current 2	IDD2	—	1.0	2.0	mA	Transfer default format
CLKI input level	Vclki	0.5	—	VDD	Vp-p	
SCL clock frequency	fSCL	—	—	400	kHz	

### Application Circuit

