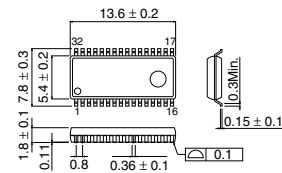


## 24bit serial/parallel converter IC BU2152FS

### ● Description

BU2152FS is a 24bit serial/parallel converter IC. High-performance output terminal enables LED to be driven directly. Bit numbers can be increased easily by cascade connection.

### ● Dimension (Units : mm)



SSOP-A32

### ● Features

- 1) LED direct-drive (Output current: 25mA)
- 2) 24bit parallel output
- 3) TTL input
- 4) Low voltage operation (2.7V ~ 5.5V)
- 5) Serial data output for cascade connection

### ● Applications

AV equipment such as component stereo, video, and TV  
Equipment with built-in micro-controller, and personal computers

### ● Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Supply voltage	V <sub>DD</sub>	-0.3 ~ +7.0	V
Power dissipation	P <sub>d</sub>	800 *	mW
Operating temperature range	T <sub>opr</sub>	-25 ~ +85	°C
Storage temperature range	T <sub>stg</sub>	-55 ~ +125	°C

\*Derating :6.4mW/°C for operation above Ta=25°C

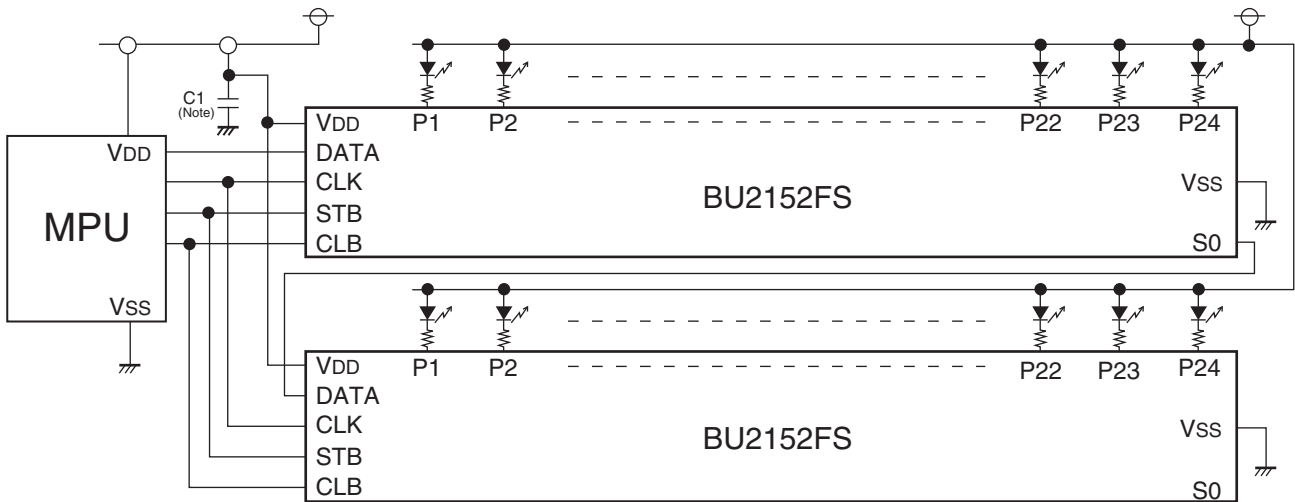
● Recommended Operating Conditions (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit
Power supply voltage	V <sub>DD</sub>	2.7	—	5.5	V

● Electrical characteristics (Unless otherwise noted: Ta=25°C, V<sub>DD</sub>=2.7~5.5V)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Input voltage "High" level	V <sub>IH</sub>	2.0	—	—	V	V <sub>DD</sub> =5.0V
Input voltage "Low" level	V <sub>IL</sub>	—	—	0.6	V	V <sub>DD</sub> =5.0V
Output voltage "High" level	V <sub>OH</sub>	V <sub>DD</sub> -1.5	—	—	V	I <sub>OH</sub> =-25mA
		V <sub>DD</sub> -1.0	—	—	V	I <sub>OH</sub> =-15mA
		V <sub>DD</sub> -0.5	—	—	V	I <sub>OH</sub> =-10mA
Output voltage "Low" level	V <sub>OL</sub>	—	—	1.5	V	I <sub>OL</sub> =25mA
		—	—	1.0	V	I <sub>OL</sub> =15mA
		—	—	0.5	V	I <sub>OL</sub> =10mA

● Application Circuit



(Note; Place a capacitor of C1 close to V<sub>DD</sub> pin as much as possible.)