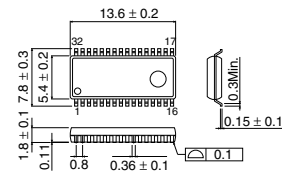


24bit serial/parallel converter IC BU2152FS

● 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 _{DD}	-0.3 ~ +7.0	V
Power dissipation	P _d	800 *	mW
Operating temperature range	T _{opr}	-25 ~ +85	°C
Storage temperature range	T _{stg}	-55 ~ +125	°C

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

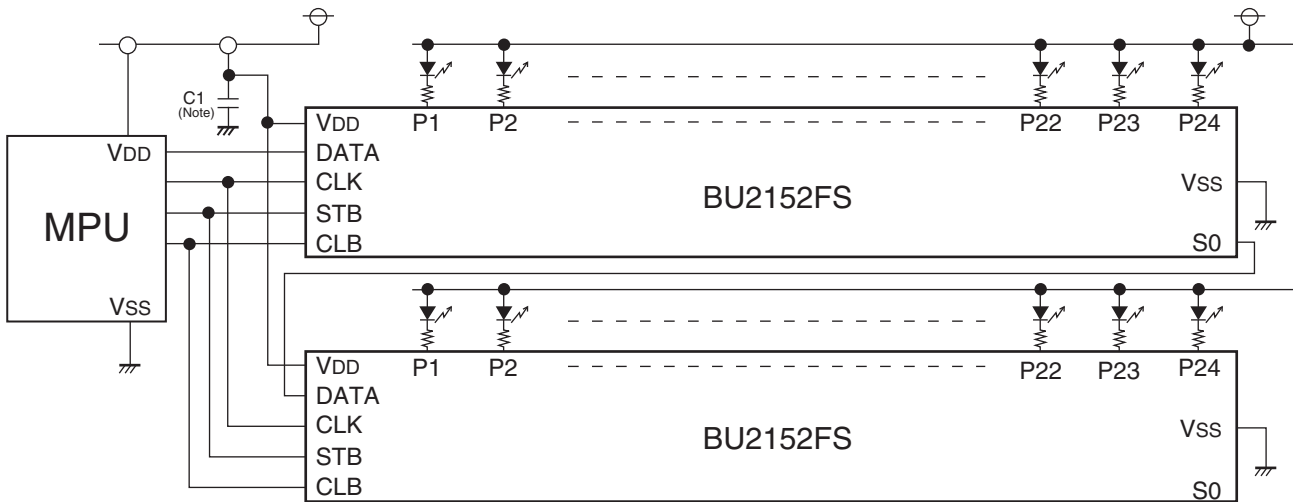
● Recommended Operating Conditions (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit
Power supply voltage	V _{DD}	2.7	—	5.5	V

● Electrical characteristics (Unless otherwise noted: Ta=25°C, V_{DD}=2.7~5.5V)

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

● Application Circuit



(Note; Place a capacitor of C1 close to V_{DD} pin as much as possible.)