

Bidirectional Voltage-Level Translator with Automatic Direction Sensing for Push-Pull Application

1. General Description

The noninverting translator of FA8201 uses two separate configurable power-supply rails. The A port is designed to track VCCA. VCCA accepts any supply voltage from 1.2V to 3.6V. The B port is designed to track VCCB. VCCB accepts any supply voltage from 1.65V to 5.5V. This allows for universal low-voltage bidirectional translation between any of the 1.2V, 1.5V, 1.8V, 2.5V, 3.3V, and 5V voltage nodes. VCCA should not exceed VCCB.

Features

- 1.2V to 3.6V on A port and 1.65V to 5.5V on B port ($VCCA < VCCB$)
- VCC Isolation Feature-If Either VCC Input Is at GND, All Outputs Are in the High-Impedance State
- EO Input Circuit Referenced to VCCA
- Low Power Consumption
- No Power-Supply Sequencing Required, either VCCA or VCCB Can be Ramped First
- 1-bit, 2-bit, 4-bit and 8-bit options
- SC-70-6L (SOT-363) 、 SOT-23-6L and SOT-23-8L 、 DFN 2x3mm²-14L 、 QFN 4x4mm²-24L Package

Ordering Information

P/N	Type	Package	Top Side Marking	Q'ty / Reel
FA8201K6R	1-bit	SC-70-6L (SOT-363)	AaZW	3000
FA8201A6R	1-bit	SOT-23-6L	8201 YWZZ	3000
FA8201A8R	2-bit	SOT-23-8L	8201 YWZZ	3000
FA8201AA8R	2-bit	SOT-23-8L	8201A YWZZ	3000
FA8201OTR	4-bit	DFN2X3-14L	8201 YWZZ	3000
FA8201NTR	8-bit	QFN4X4-24L	FA8201 YYWWZZ	3000

※Topside Marking Rule:

Aa : 8201

Y : Year 2019→F、2020→G ◦

YY : Year 2019→19、2020→20 ◦

W : Week 01~26→A~Z、27~52→a~z、53→0 ◦

WW : Week 01~53 ◦

Z : Series Code ◦

ZZ : Series Code ◦