



New Product Announcement

PI3B3253
PI3B3257
PI3CH480
PI5C3257

New QFN Package for Bus Switch

Diodes Incorporated introduces the 3.3V low-voltage (PI3B/PI3C/PI3CH) and 5V (PI5C) bus switches, making major technological advances in this market.

Diodes' bus switches are designed to quickly turn on/off the connection to a high-speed digital line or bus. Diodes' bus switches provide industry-standard functions and pin outs in a full range of bit widths. Diodes' bus switches feature subnanosecond propagation delays, low on-resistance, low input/output capacitance, and bandwidths up to 500MHz.

Diodes offers over 40 different functions in its broad line of FET switches, bus switches, bus exchanges, and multiplexer/demultiplexer switches for isolation, translation, or bus-exchange requirements.



The Diodes Advantage

- **One of the Smallest Packages on the Market**
Reduces PCB board space requirement
- **New Package Height of 0.6mm**
Good for thin and slim system designs
- **Provides Thermal Pad for Heat Dissipation**
Better performance on heat dissipation
- **Better Performance on Low Propagation Delay Time, Higher Bandwidth, Better Crosstalk Rejection**
Provides lower signal distortion and better signal integrity

Applications

- 4-Bit Bus Multiplexing and Demultiplexing
- IP Phones: Wired and Wireless
- Optical Modules
- Optical Networking: Video Over Fiber and EPON
- Private Branch Exchange (PBX)
- Internet-of-Things



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Product Portfolio

Part Numbers	Configuration	Temperature Range	Voltage	Single Ended Channels	Signal Type	Packages
PI3B3253	Mux: Dual 4-Channel	-40°C to +85°C	2.3V ~ 3.6V	4	Single Ended	QSOP, TSSOP, UQFN
PI3B3257	Mux: Quad 2-Channel	-40°C to +85°C	2.3V ~ 3.6V	2	Single Ended	QSOP, TSSOP, UQFN
PI3CH480	Mux: Quad 2-Channel	-40°C to +85°C	2.3V ~ 3.6V	2	Single Ended	QSOP, TSSOP, UQFN
PI5C3257	Mux: Quad 2-Channel	-40°C to +85°C	5V	2	Single Ended	QSOP, TSSOP, UQFN

Ordering Information

Part Numbers	Package Code	Package	Reel Size	Units per Reel
PI3B3253ZHDEX	ZHD	UQFN-16	13"	3500
PI3B3257ZHDEX	ZHD	UQFN-16	13"	3500
PI3CH480ZHDEX	ZHD	UQFN-16	13"	3500
PI5C3257ZHDEX	ZHD	UQFN-16	13"	3500

Cross Reference

Competitor	Part Number	Package	Diodes Ordering Part Number
TI	SN74CBTLV3253RGY	VQFN	PI3B3253ZHDEX
TI	SN74CBTLV3257RGY	VQFN	PI3B3257ZHDEX
TI	SN74CB3Q3257RGY	VQFN	PI3CH480ZHDEX
TI	SN74CBT3257RGY	VQFN	PI5C3257ZHDEX