



## DIO3232B

### Low-Power, USB2.0 High-Speed Switch

#### Features

- $V_{CC}$  operation at 2.7V to 4.3V
- Low Con: 6.5pF Typical
- Low Ron: 6 $\Omega$  Typical
- Low Power Consumption: 1 $\mu$ A Maximum
- Low ICCT : 15 $\mu$ A Max @ $V_{IN}$ =1.8V,  $V_{CC}$ =3.6V
- -3dB Bandwidth: > 720MHz
- Packaged in Green DFN-10 and QFN-10
- 8kV HBM ESD Rating  
2kV CDM ESD Rating
- Power-Off/On Protection on Common port.  
D+/D- Pins Tolerate up to 5.25V

#### Applications

- Cell-Phone/PDA
- MP3/MP4/PMP
- STB/LCDTV

#### Descriptions

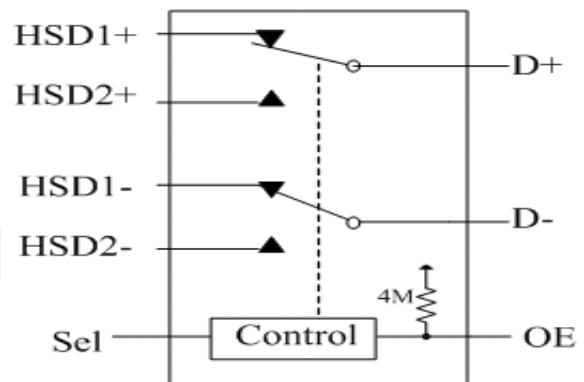
The DIO3232B is a low power, dual SPDT 2-port high-speed analog switch. It handles bi-directional signal flow and is optimized for switching a hi-speed (480Mbps) source or a full-speed (12Mbps) source.

DIO3232B has high channel-to-channel noise isolation and low bit-to-bit skew which allows it to pass high-speed differential signals with good signal integrity. Each switch offers little or no attenuation of the high-speed signals at the outputs.

The DIO3232B contains special circuitry on the D+/D- pins, which can tolerate up to 5.25V when the USB devices are either powered off or powered on.

DIO3232B is available in two type Green packages: QFN-10 and DFN-10 package

#### Block Diagram



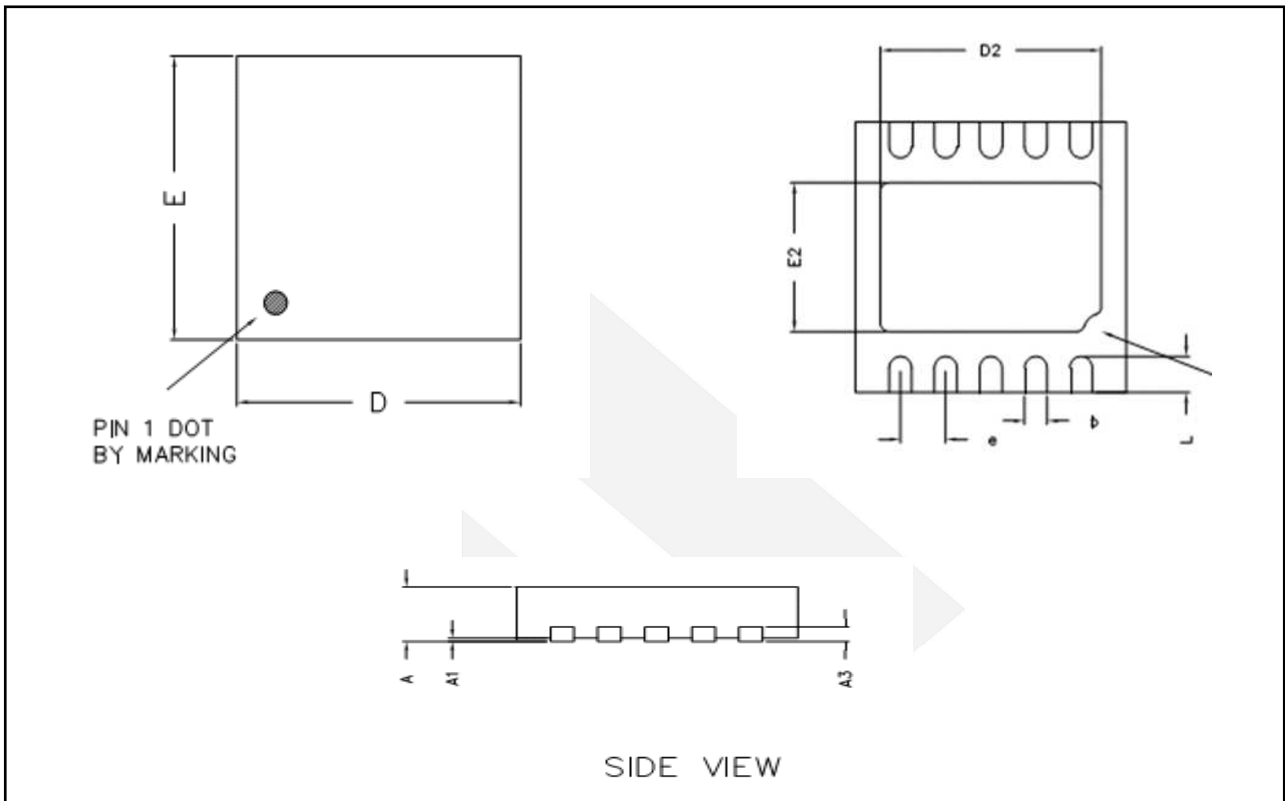
#### Ordering Information

Order Part Number	Top Marking		$T_A$	Package	
DIO3232BDN10	3232B	Green	-40 to +85°C	DFN-10 (3.0mm*3.0mm)	Tape & Reel, 5000
DIO3232BQN10	YWGZ	Green	-40 to +85°C	QFN-10 (2.0mm*1.5mm)	Tape & Reel, 3000

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## Physical Dimensions: DFN-10

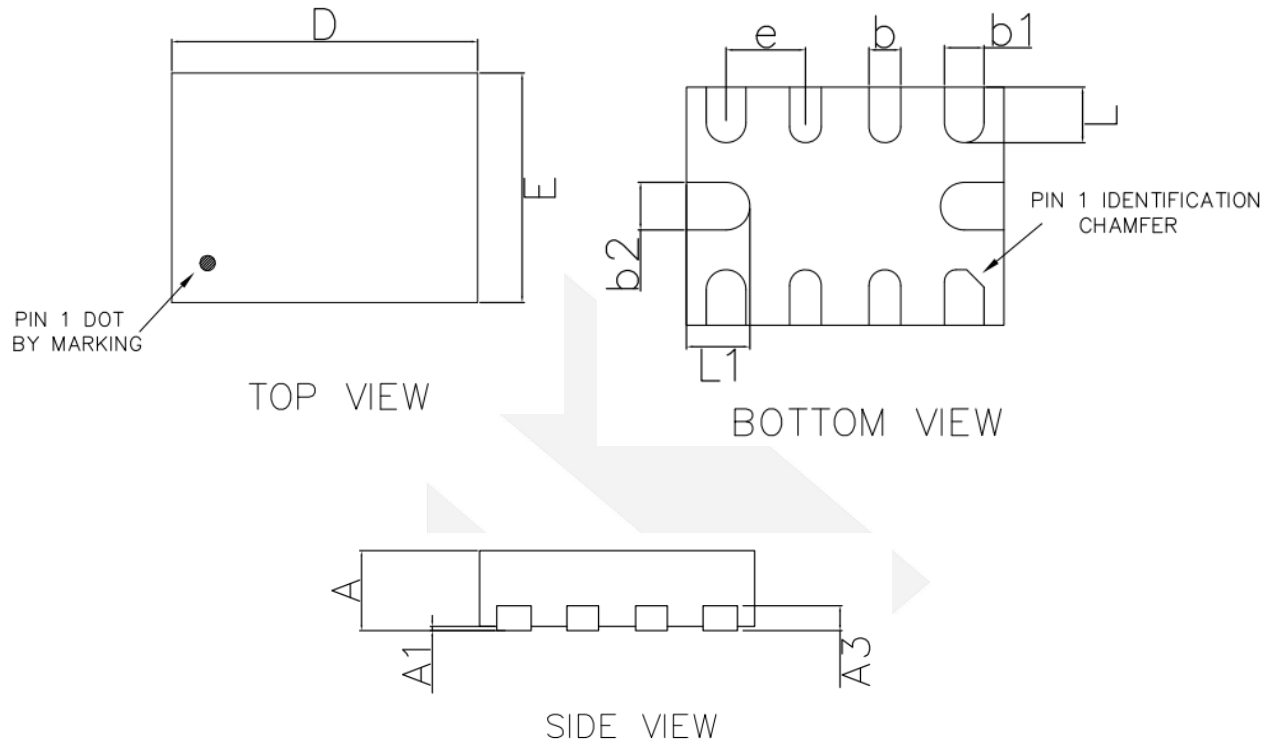


COMMON DIMENSIONS(MM)			
PKG.	W:VERY VERY THIN		
REF.	MIN.	NOM	MAX
A	0.70	0.75	0.80
A1	0.00		0.05
A3	0.20 REF.		
D	2.95	3.00	3.05
E	2.95	3.00	3.05
b	0.18	0.25	0.30
L	0.30	0.40	0.50
D2	2.30	2.45	2.55
E2	1.50	1.65	1.75
e	0.50 BSC		

# DIO3232B

Low-Power, USB2.0 High-Speed Switch

## Physical Dimensions: QFN-10



COMMON DIMENSIONS(MM)			
PKG.	ULTRA THIN		
REF.	MIN.	NOM	MAX
A	0.50	0.55	0.60
A1	0.00		0.05
A3	0.15 REF.		
D	1.95	2.00	2.05
E	1.45	1.50	1.55
b	0.15	0.20	0.25
b1	0.20	0.25	0.30
b2	0.25	0.30	0.35
L	0.30	0.35	0.40
L1	0.35	0.40	0.45
e	0.50 BSC		

## CONTACT US

**D**ioo is a professional design and sales corporation for high-quality and performance analog semiconductors. The company focuses on industry markets, such as, cell phone, handheld products, laptop, and medical equipments and so on. Dioo's product families include analog signal processing and amplifying, LED drivers and charger IC. Go to <http://www.dioo.com> for a complete list of Dioo product families.

For additional product information, or full datasheet, please contact with our Sales Department or Representatives.

