



DIO3222A

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 Ω Typical
- Low Power Consumption: 1 μ A Maximum
- Low I_{CCT} : 15 μ A Maximum
@ V_{IN} =1.8V, V_{CC} =3.6V
- -3dB Bandwidth: > 720MHz
- Packaged in Green
DQFN-10; MSOP-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

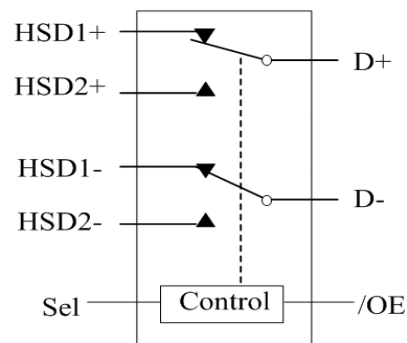
The DIO3222A is a low power, dual SPDT 2-port high-speed analog switch. It handles bi-directional signal flow and is optimized for switching a hi-speed (480Mbps) source or a full-speed (12Mbps) source.

DIO3222A 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 DIO3222A 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.

DIO3222A is available in three type Green packages: DQFN-10, MSOP-10 and QFN-10.

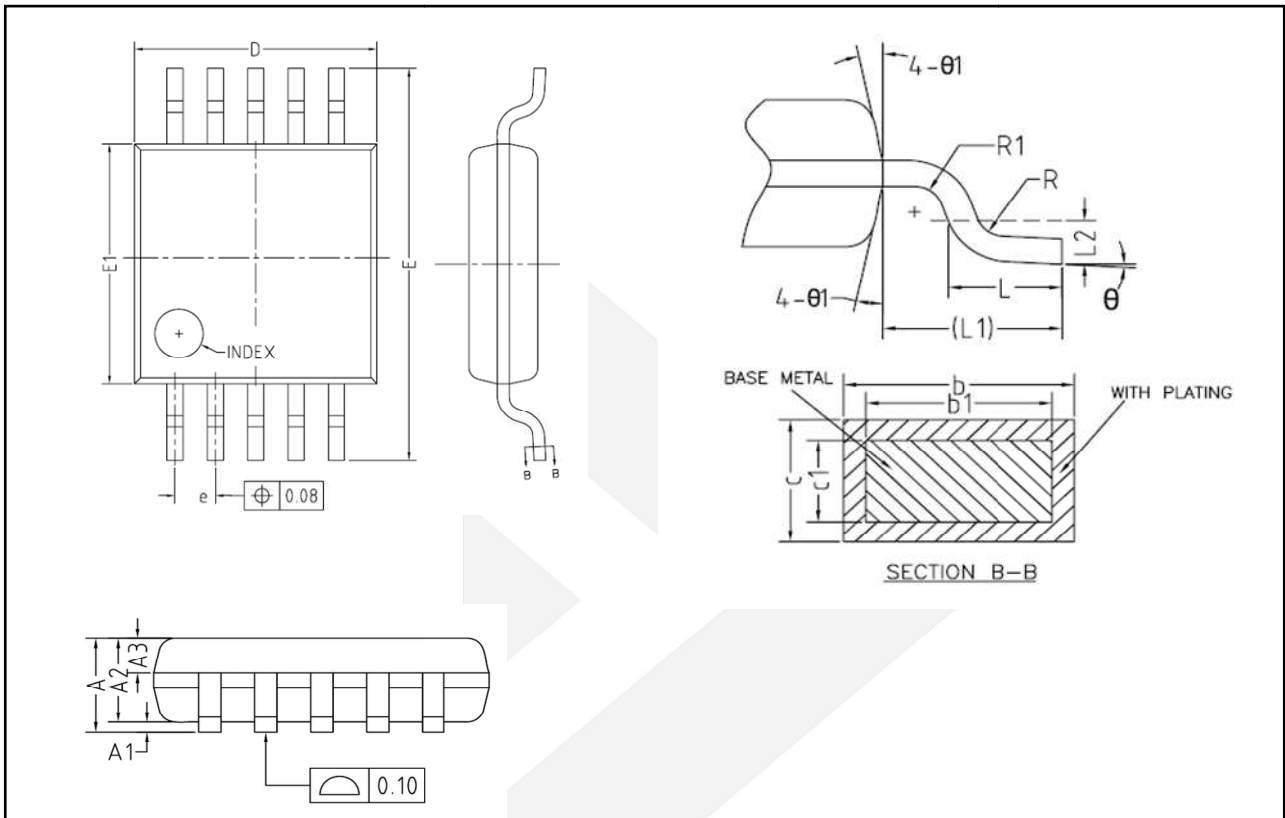
Block Diagram



Ordering Information

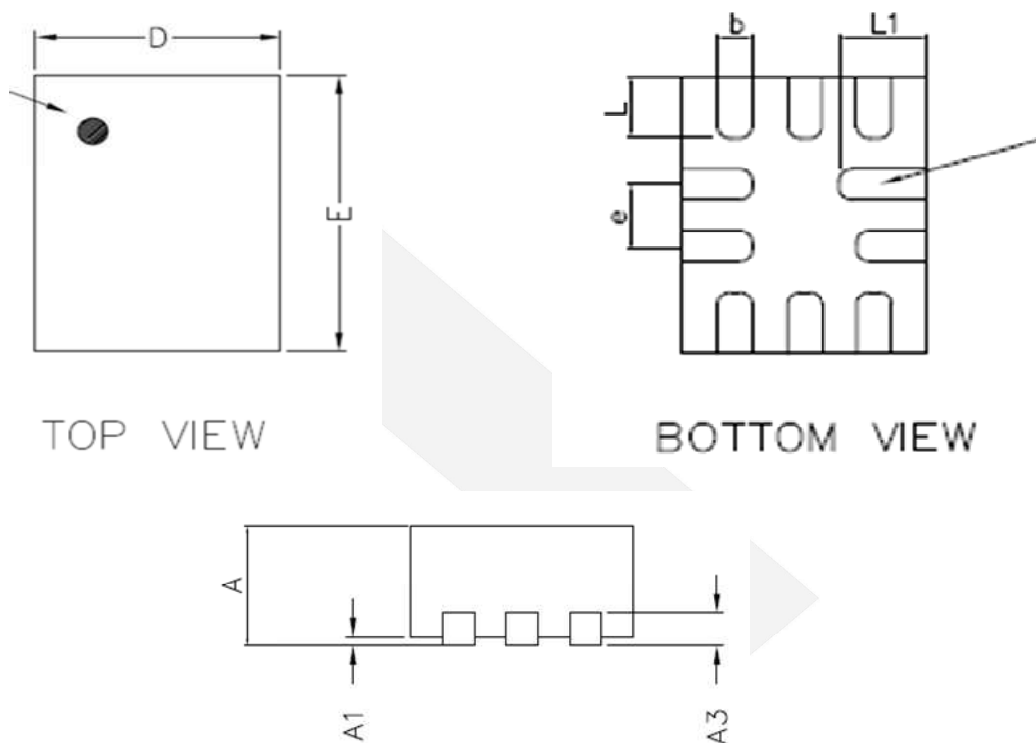
Order Part Number	Top Marking		T_A		Package
DIO3222AMP10	DIO3222	Green/RoHS	-40 to +85°C	MSOP-10	Tape & Reel, 3000
DIO3222ALP10	YWGZ	Green	-40 to +85°C	DQFN-10	Tape & Reel, 3000
DIO3222AQN10	YWGZ	Green	-40 to +85°C	QFN-10	Tape & Reel, 3000

Physical Dimensions: MSOP-10



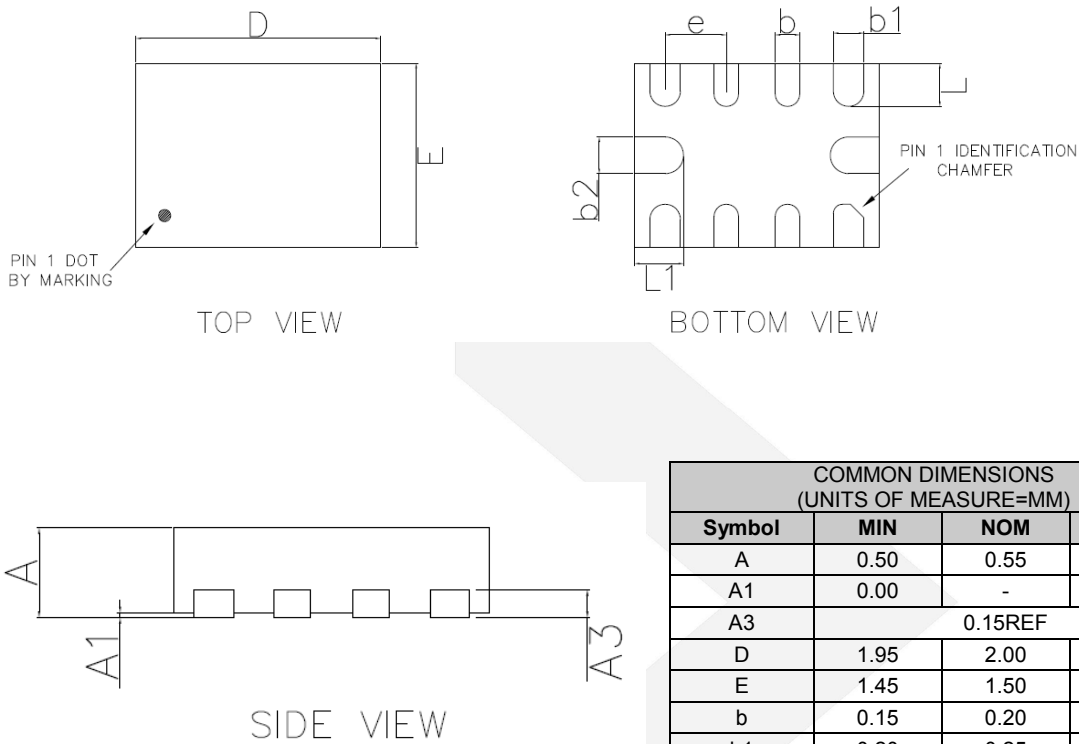
Symbol	Min	Typ	Max
A	-	-	1.10
A1	0	-	0.15
A2	0.75	0.85	0.95
A3	0.25	0.35	0.39
b	0.18	-	0.27
b1	0.17	0.20	0.23
c	0.15	-	0.20
c1	0.14	0.15	0.16
D	2.90	3.00	3.10
E	4.70	4.90	5.10
E1	2.90	3.00	3.10
e	0.40	0.50	0.60
L	0.40	0.60	0.80
L1	0.95REF		
L2	0.25BSC		
R	0.07	-	-
R1	0.07	-	-
θ	0°	-	8°
θ1	9°	12°	15°

Physical Dimensions: DQFN-10



COMMON DIMENSIONS(MM)			
PKG.	UT:ULTRA THIN		
REF.	MIN.	NOM	MAX
A	0.5	0.55	0.6
A1	0		0.05
A3	0.15REF.		
D	1.35	1.4	1.45
E	1.75	1.8	1.85
b	0.15	0.2	0.25
L	0.3	0.4	0.5
L1	0.4	0.5	0.6
e	0.4BSC		

Physical Dimensions: QFN-10



COMMON DIMENSIONS (UNITS OF MEASURE=MM)			
Symbol	MIN	NOM	MAX
A	0.50	0.55	0.60
A1	0.00	-	0.05
A3	0.15REF		
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		



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CONTACT US

Dioo 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.



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DIOO:

[DIO3222ALP10](#) [DIO3222AQN10](#) [DIO3222AMP10](#)