



## Limited Datasheet

For full content datasheet, please go to [www.dioo.com/support/doc.html](http://www.dioo.com/support/doc.html) or Email [datasheet.requary@dioo.com](mailto:datasheet.requary@dioo.com)

# DIO1567

## Dual DPDT SIM Card Analog Switch

### Features

- Switch Type: DPDT(2X)
- Voltage Operation: 1.65V to 5.25V
- Low On Resistance: 0.75Ω at SIM path; 4.2Ω at other path
- Bandwidth >200MHz
- 10pF C<sub>ON</sub> at DAT/CLK/RST path
- Low power consumption
- Packaged: 16-Lead DQFN and 16-Lead TQFN
- 8kV HBM ESD

### Descriptions

The DIO1567 is a dual Double-Pole, Double-Throw (DPDT) analog switch targeted at dual SIM card multiplexing. DIO1567 operates from a single 1.65V to 5.25V supply and features an ultra-low on resistance of 0.5Ω at SIM path to ensure minimal voltage drop in other path. This device is fabricated with sub-micron CMOS technology to achieve fast switching speeds and is designed for break-before-make operation.

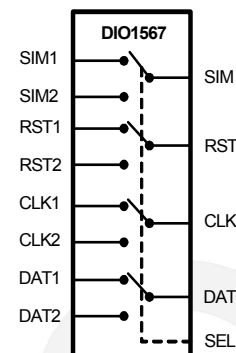
DIO1567 features very low quiescent current even when the control voltage is lower than the V<sub>CC</sub> supply. This allows mobile handset applications direct interface with the baseband processor general-purpose I/Os.

DIO1567 provides two packages with Green DQFN-16 and TQFN-16.

### Applications

- Cell-Phone/PDA
- Set-Top Box
- Digital Camera
- Notebook
- TV/ LCD Monitor

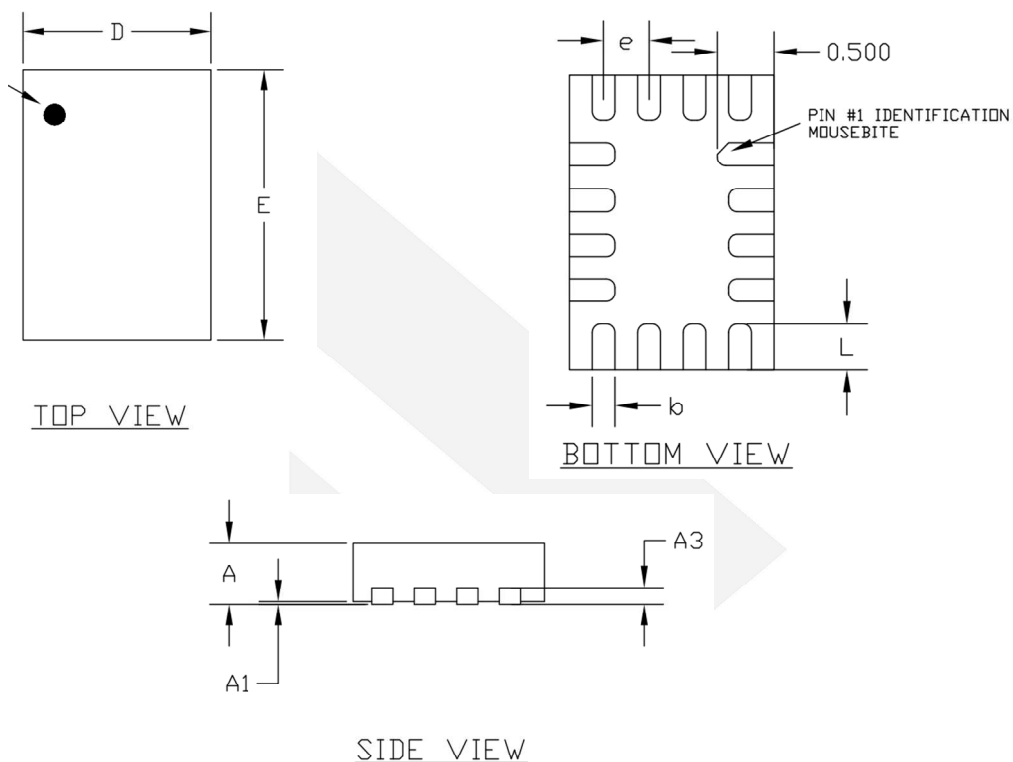
### Block Diagram



### Ordering Information

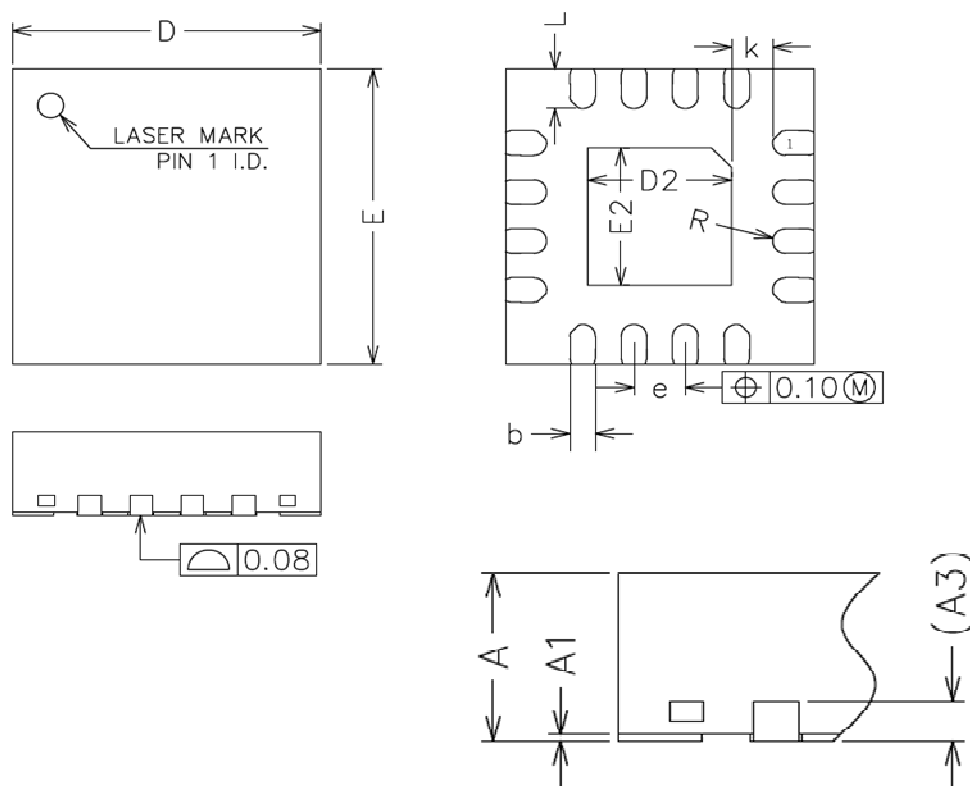
Order Part Number	Top Marking		T <sub>A</sub>	Package	
DIO1567LN16	D15	Green	-40 to +85°C	DQFN-16	Tape & Reel, 3000
DIO1567CL16	D1567	Green	-40 to +85°C	TQFN-16	Tape & Reel, 5000

### Physical Dimensions: DQFN-16



COMMON DIMENSIONS(MM) (Units of Measure = Millimetre)			
PKG.	UT:ULTRA THIN		
REF	MIN	NOM	MAX
A	0.50	0.55	0.60
A1	0.00	--	0.05
A3	0.15REF.		
D	1.75	1.80	1.85
E	2.55	2.60	2.65
L	0.35	0.40	0.45
b	0.15	0.20	0.25
e	0.40BSC		

### Physical Dimensions: TQFN-16



COMMON DIMENSIONS (MM)			
(Units of Measure = Millimetre)			
PKG.	W: VERY VERY THIN		
SYMBOL	MIN.	NOM.	MAX.
A	0.70	0.75	0.80
A1	0	0.02	0.05
A3	0.20 REF.		
b	0.20	0.25	0.30
D	2.90	3.00	3.10
E	2.90	3.00	3.10
D2	1.30	1.40	1.50
E2	1.30	1.40	1.50
e	0.40	0.50	0.60
K	0.30	-	-
L	0.35	0.40	0.45
R	0.09	-	-



## DIO1567

### 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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