

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_{ON} 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.

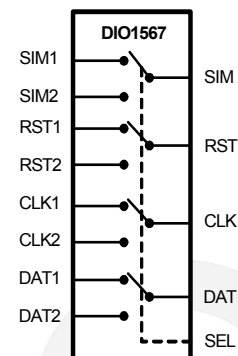
DIO1567 features very low quiescent current even when the control voltage is lower than the V_{CC} supply. This allows mobile handset applications direct interface with the baseband processor general-purpose I/Os.

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

Applications

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

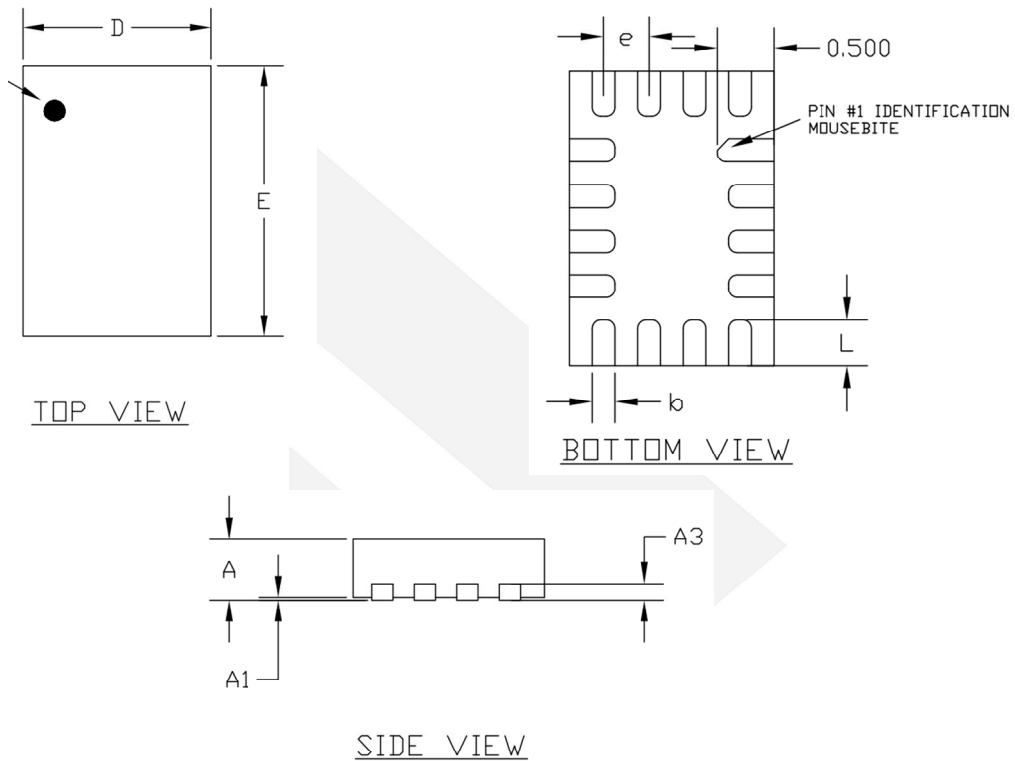
Block Diagram



Ordering Information

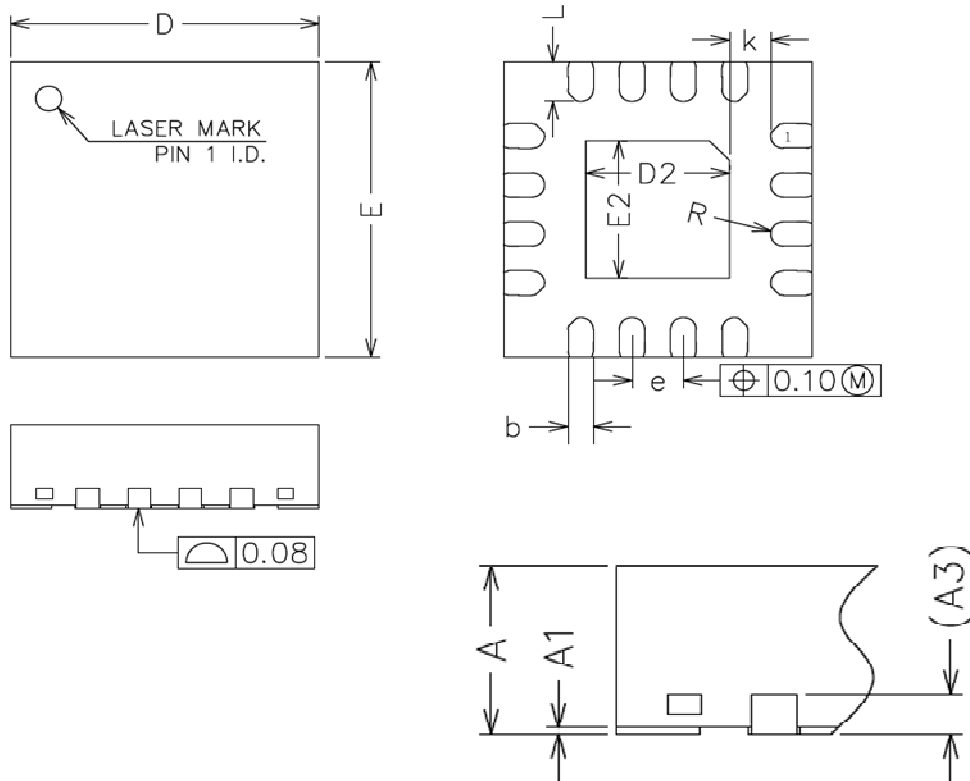
| Order Part Number | Top Marking | | T _A | Package | |
|-------------------|-------------|-------|----------------|---------|-------------------|
| | | | | | |
| DIO1567LN16 | D15 | Green | -40 to +85°C | DQFN-16 | Tape & Reel, 3000 |
| DIO1567CL16 | D1567 | Green | -40 to +85°C | TQFN-16 | Tape &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

Physical Dimensions: DQFN-16



| COMMON DIMENSIONS(MM) | | | | |
|---------------------------------|---------------|------|------|--|
| (Units of Measure = Millimetre) | | | | |
| PKG. | UT:ULTRA THIN | | | |
| | MIN | NOM | MAX | |
| REF | | | | |
| 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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