

Image may be representation.  
See specifications for product details.



## MVGSF1N03LT1G

|                          |                                  |
|--------------------------|----------------------------------|
| Manufacturer Part Number | <b>MVGSF1N03LT1G</b>             |
| Manufacturer             | <b>onsemi</b>                    |
| Allelco Part Number      | 32D-MVGSF1N03LT1G                |
| ECAD Model               | PCB Symbol, Footprint & 3D Mode  |
| Parts Description        | MOSFET N-CH 30V 1.6A SOT23       |
| Package                  | TO-236-3, SC-59, SOT-23-3        |
| Data sheet               | <b>MGSF1N03L, MVGSF1N03L.pdf</b> |
| RoHs Status              | ROHS3 Compliant                  |

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MVGSF1N03LT1G - onsemi.New Original in Stock. Download Linear Technology MVGSF1N03LT1G datasheet/specifications on AllelcoElec.com.  
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### Specifications

MVGSF1N03LT1G Tech Specifications

MVGSF1N03LT1G - onsemi technical specifications, attributes, parameters

| Product Attribute       | Attribute Value           | Product Attribute                      | Attribute Value    |
|-------------------------|---------------------------|--|--------------------|
| Manufacturer            | onsemi                    | Operating Temperature                  | -55°C ~ 150°C (TJ) |
| Vgs(th) (Max) @ Id      | 2.4V @ 250µA              | Mounting Type                          | Surface Mount      |
| Vgs (Max)               | ±20V                      | Input Capacitance (Ciss) (Max) @ Vds   | 140 pF @ 5 V       |
| Technology              | MOSFET (Metal Oxide)      | FET Type                               | N-Channel          |
| Supplier Device Package | SOT-23-3 (TO-236)         | FET Feature                            | -                  |
| Series                  | -                         | Drive Voltage (Max Rds On, Min Rds On) | 4.5V, 10V          |
| Rds On (Max) @ Id, Vgs  | 100mOhm @ 1.2A, 10V       | Drain to Source Voltage (Vdss)         | 30 V               |
| Power Dissipation (Max) | 420mW (Ta)                | Current - Continuous Drain (Id) @ 25°C | 1.6A (Ta)          |
| Package / Case          | TO-236-3, SC-59, SOT-23-3 | Base Product Number                    | MVGSF1             |
| Package                 | Tape & Reel (TR)          |  |                    |

### Parts with Similar Specifications

The three parts on the right have similar specifications to onsemi MVGSF1N03LT1G

| Product Attribute                      |                           |   |                      |                      |
|--|---------------------------|---|----------------------|----------------------|
| Part Number                            | MVGSF1N03LT1G             | <b>BUK9614-60E,118</b>                    | <b>FQP20N06</b>      | <b>IXFP7N80PM</b>    |
| Manufacturer                           | onsemi                    | NXP Semiconductors                        | onsemi               | IXYS                 |
| Power Dissipation (Max)                | 420mW (Ta)                | 96W (Tc)                                  | 53W (Tc)             | 50W (Tc)             |
| Series                                 | -                         | Automotive, AEC-Q101, TrenchMOS™          | QFET®                | HiPerFET™, Polar     |
| Supplier Device Package                | SOT-23-3 (TO-236)         | D2PAK                                     | TO-220-3             | TO-220-3             |
| FET Type                               | N-Channel                 | N-Channel                                 | N-Channel            | N-Channel            |
| Base Product Number                    | MVGSF1                    | -   | FQP20                | IXFP7N80             |
| FET Feature                            | -                         | -   | -                    | -                    |
| Mounting Type                          | Surface Mount             | Surface Mount                             | Through Hole         | Through Hole         |
| Vgs(th) (Max) @ Id                     | 2.4V @ 250µA              | 2.1V @ 1mA                                | 4V @ 250µA           | 5V @ 1mA             |
| Input Capacitance (Ciss) (Max) @ Vds   | 140 pF @ 5 V              | 2651 pF @ 25 V                            | 590 pF @ 25 V        | 1890 pF @ 25 V       |
| Technology                             | MOSFET (Metal Oxide)      | MOSFET (Metal Oxide)                      | MOSFET (Metal Oxide) | MOSFET (Metal Oxide) |
| Package / Case                         | TO-236-3, SC-59, SOT-23-3 | TO-263-3, D²Pak (2 Leads + Tab), TO-263AB | TO-220-3             | TO-220-3             |
| Drive Voltage (Max Rds On, Min Rds On) | 4.5V, 10V                 | 5V  | 10V                  | 10V                  |
| Drain to Source Voltage (Vdss)         | 30 V                      | 60 V                                      | 60 V                 | 800 V                |
| Rds On (Max) @ Id, Vgs                 | 100mOhm @ 1.2A, 10V       | 12.8mOhm @ 15A, 10V                       | 60mOhm @ 10A, 10V    | 1.44Ohm @ 3.5A, 10V  |
| Current - Continuous Drain (Id) @ 25°C | 1.6A (Ta)                 | 56A (Tc)                                  | 20A (Tc)             | 3.5A (Tc)            |
| Vgs (Max)                              | ±20V                      | ±10V                                      | ±25V                 | ±30V                 |
| Package                                | Tape & Reel (TR)          | Bulk                                      | Tube                 | Tube                 |
| Operating Temperature                  | -55°C ~ 150°C (TJ)        | -55°C ~ 175°C (TJ)                        | -55°C ~ 175°C (TJ)   | -55°C ~ 150°C (TJ)   |

### MVGSF1N03LT1G Datasheet PDF

Download MVGSF1N03LT1G pdf datasheets and onsemi documentation for MVGSF1N03LT1G - onsemi.

#### Datasheets

[MGSF1N03L, MVGSF1N03L.pdf](#)

#### Environmental Information

[onsemi REACH.pdf](#)



















[onsemi RoHS.pdf](#)

#### PCN Design/Specification

PCN Assembly/Origin

Customers Also Interested in

Recommended Products

|   |  |   |   |   |  |
|---|--|---|---|---|--|
| <br><b>BUK9614-60E,118</b><br>NXP Semiconductors<br>NEXPERIA BUK9614-60E - POWER FIE | <br><b>FQP20N06</b><br>onsemi<br>MOSFET N-CH 60V 20A TO220-3                  | <br><b>IXFP7N80PM</b><br>IXYS<br>MOSFET N-CH 800V 3.5A TO220AB               | <br><b>FDN304PZ</b><br>onsemi<br>MOSFET P-CH 20V 2.4A SUPERSOT3     | <br><b>RK3055ETL</b><br>Rohm Semiconductor<br>MOSFET N-CH 60V 8A CPT3            | <br><b>IPA60R160P6</b><br>Infineon Technologies<br>POWER FIELD-EFFECT TRANSISTOR    |
| <br><b>IXFH28N50Q</b><br>IXYS<br>MOSFET N-CH 500V 28A TO247AD                        | <br><b>IRF520</b><br>onsemi<br>MOSFET N-CH 100V 9.2A TO220AB                  | <br><b>SI3460DV-T1-GE3</b><br>Vishay Siliconix<br>MOSFET N-CH 20V 5.1A 6TSOP | <br><b>MVGSF1N02LT1G</b><br>onsemi<br>MOSFET N-CH 20V 750MA SOT23-3 | <br><b>IRFU9220</b><br>Harris Corporation<br>MOSFET P-CH 200V 3.6A TO251AA       | <br><b>DMTH3004LPS-13</b><br>Diodes Incorporated<br>MOSFET N-CH 30V PWRDI5060       |
| <br><b>STD14NM50N</b><br>STMicroelectronics<br>MOSFET N-CH 500V 12A DPAK           | <br><b>IRFP044N</b><br>Infineon Technologies<br>MOSFET N-CH 55V 53A TO247AC | <br><b>FDD6782A</b><br>Fairchild Semiconductor<br>MOSFET N-CH 25V 20A DPAK | <br><b>MTB30P06V</b><br>onsemi<br>P-CHANNEL POWER MOSFET          | <br><b>IRFPS37N50APBF</b><br>Vishay Siliconix<br>MOSFET N-CH 500V 36A SUPER247 | <br><b>FDS6575</b><br>Fairchild Semiconductor<br>SMALL SIGNAL FIELD-EFFECT TRANSI |

Shipment

Delivery Time

In-stock items can be shipped within 24 hours. Some parts will be arranged for delivery within 1-2 days from the date all items arrive at our warehouse. And Allelco ships order once a day at about 17:00, except Sunday. Once the goods are shipped, the estimated delivery time depends on the shipping methods and Delivery destination. The table below shows are the logistic time for some common countries.

Delivery Cost

- > Use your express account for shipment if you have one.
  - > Use our account for the shipment. Refer to the table below for the approximate charges.
- (Different time frame / countries / package size has different price.)

Delivery Method

- > Global Common Shipment by DHL / UPS / FedEx / TNT / EMS / SF we support.
- > Others more shipping ways, please get in touch with your customer manager.

| Common Countries Logistic Time Reference |                |                    |
|--|----------------|--------------------|
| Region                                   | Country        | Logistic Time(Day) |
| America                                  | United States  | 5                  |
|  | Brazil         | 7                  |
| Europe                                   | Germany        | 5                  |
|  | United Kingdom | 4                  |
|  | Italy          | 5                  |
| Oceania                                  | Australia      | 6                  |
|  | New Zealand    | 7                  |
| Asia                                     | India          | 6                  |
|  | Japan          | 7                  |
| Middle East                              | Israel         | 6                  |

| DHL & FedEx Shipment Charges Reference |                      |
|--|----------------------|
| Shipment charges(KG)                   | Reference DHL(USD\$) |
| 0.00kg-1.00kg                          | USD\$60.00           |
| 1.00kg-2.00kg                          | USD\$70.00           |
| 2.00kg-3.00kg                          | USD\$80.00           |




Note: The above table is for reference only. There may have some data bias for the uncontrollable factors. Contact us if you have any questions.

Payment Support



The payment method can be chosen from the methods shown below:  
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