



SUM70090E-GE3

| | |
|--------------------------|--|
| Manufacturer Part Number | SUM70090E-GE3 |
| Manufacturer | Vishay / Siliconix |
| Allelco Part Number | 32D-SUM70090E-GE3 |
| ECAD Model |  PCB Footprint and Symbol |
| Parts Description | MOSFET N-CH 100V 50A TO263 |
| Package | TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB |
| Data sheet | SUM70090E.pdf |
| RoHs Status |  ROHS3 Compliant |


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SUM70090E-GE3 - Vishay Siliconix. New Original in Stock. Download Linear Technology SUM70090E-GE3 datasheet/specifications on AllelcoElec.com.

Request a quote for SUM70090E-GE3, please send us email: info@allelco.com

Specifications





SUM70090E-GE3 Tech Specifications

SUM70090E-GE3 - Vishay Siliconix technical specifications, attributes, parameters

| Product Attribute | Attribute Value | Product Attribute | Attribute Value |
|-------------------------|--|--|--------------------|
| Manufacturer | Vishay / Siliconix | Operating Temperature | -55°C ~ 175°C (TJ) |
| Vgs(th) (Max) @ Id | 4V @ 250µA | Mounting Type | Surface Mount |
| Vgs (Max) | ±20V | Input Capacitance (Ciss) (Max) @ Vds | 1950 pF @ 50 V |
| Technology | MOSFET (Metal Oxide) | Gate Charge (Qg) (Max) @ Vgs | 50 nC @ 10 V |
| Supplier Device Package | TO-263 (D ² Pak) | FET Type | N-Channel |
| Series | ThunderFET® | FET Feature | - |
| Rds On (Max) @ Id, Vgs | 8.9mOhm @ 20A, 10V | Drive Voltage (Max Rds On, Min Rds On) | 7.5V, 10V |
| Power Dissipation (Max) | 125W (Tc) | Drain to Source Voltage (Vdss) | 100 V |
| Package / Case | TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB | Current - Continuous Drain (Id) @ 25°C | 50A (Tc) |
| Package | Tape & Reel (TR) | Base Product Number | SUM70090 |

Parts with Similar Specifications

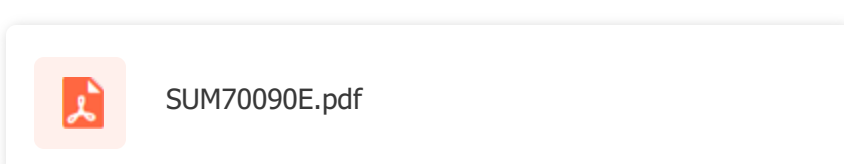
The three parts on the right have similar specifications to Vishay Siliconix SUM70090E-GE3

| Product Attribute |  NO PICTURE |  |  |  |
|--|---|---|---|---|
| Part Number | SUM70090E-GE3 | SUM65N20-30-E3 | SUM70N03-09CP-E3 | SUM70040E-GE3 |
| Manufacturer | Vishay Siliconix | Vishay Siliconix | Vishay Siliconix | Vishay Siliconix |
| Package / Case | TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB | TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB | TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB | TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB |
| Vgs (Max) | ±20V | ±20V | ±20V | ±20V |
| Series | ThunderFET® | TrenchFET® | TrenchFET® | TrenchFET® |
| Gate Charge (Qg) (Max) @ Vgs | 50 nC @ 10 V | 130 nC @ 10 V | 45 nC @ 10 V | 120 nC @ 10 V |
| Vgs(th) (Max) @ Id | 4V @ 250µA | 4V @ 250µA | 3V @ 250µA | 4V @ 250µA |
| FET Feature | - | - | - | - |
| Mounting Type | Surface Mount | Surface Mount | Surface Mount | Surface Mount |
| Supplier Device Package | TO-263 (D ² Pak) | TO-263 (D ² Pak) | TO-263 (D ² Pak) | TO-263 (D ² Pak) |
| Power Dissipation (Max) | 125W (Tc) | 3.75W (Ta), 375W (Tc) | 3.75W (Ta), 93W (Tc) | 375W (Tc) |
| Package | Tape & Reel (TR) | Tape & Reel (TR) | Tape & Reel (TR) | Tape & Reel (TR) |
| Operating Temperature | -55°C ~ 175°C (TJ) | -55°C ~ 175°C (TJ) | -55°C ~ 175°C (TJ) | -55°C ~ 175°C (TJ) |
| Rds On (Max) @ Id, Vgs | 8.9mOhm @ 20A, 10V | 30mOhm @ 30A, 10V | 9.5mOhm @ 20A, 10V | 4mOhm @ 20A, 10V |
| Drain to Source Voltage (Vdss) | 100 V | 200 V | 30 V | 100 V |
| Input Capacitance (Ciss) (Max) @ Vds | 1950 pF @ 50 V | 5100 pF @ 25 V | 2200 pF @ 25 V | 5100 pF @ 50 V |
| Current - Continuous Drain (Id) @ 25°C | 50A (Tc) | 65A (Tc) | 70A (Tc) | 120A (Tc) |
| Technology | MOSFET (Metal Oxide) | MOSFET (Metal Oxide) | MOSFET (Metal Oxide) | MOSFET (Metal Oxide) |
| FET Type | N-Channel | N-Channel | N-Channel | N-Channel |
| Drive Voltage (Max Rds On, Min Rds On) | 7.5V, 10V | 10V | 4.5V, 10V | 7.5V, 10V |
| Base Product Number | SUM70090 | SUM65 | SUM70 | SUM70040 |

SUM70090E-GE3 Datasheet PDF

Download SUM70090E-GE3 pdf datasheets and Vishay Siliconix documentation for SUM70090E-GE3 - Vishay Siliconix.

Datasheets



Customers Also Interested in

Recommended Products



SUM65P06-20

Electro-Films (EFI) / Vishay



SUM65N20-30-E3

Vishay Siliconix
MOSFET N-CH 200V 65A TO263



SUM70N03-09CP MOS

Electro-Films (EFI) / Vishay



SUM65N20-30 MOS

Electro-Films (EFI) / Vishay



SUM70N03-09CP-E3

Vishay Siliconix
MOSFET N-CH 30V 70A TO263



SUM70N06-11 MOS

Electro-Films (EFI) / Vishay



SUM70N04-07L

Electro-Films (EFI) / Vishay



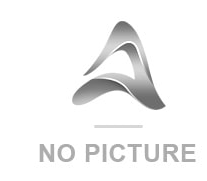
SUM65N20-30-E3 MOS

Electro-Films (EFI) / Vishay



SUM70040E-GE3

Vishay Siliconix
MOSFET N-CH 100V 120A TO263



SUM60N10-17-GE3

VBSEMI



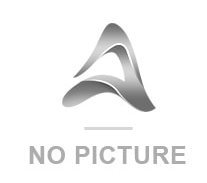
SUM70101EL-GE3

Vishay Siliconix
MOSFET P-CH 100V 120A TO263



SUM70N04-07L-E3

Vishay Siliconix
MOSFET N-CH 40V 70A TO263



SUM62N20-30-E3

VISH



SUM70040E

Electro-Films (EFI) / Vishay



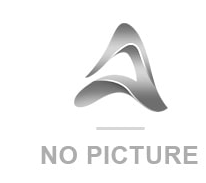
SUM70N03-09CP

Electro-Films (EFI) / Vishay



SUM70060E-GE3

Vishay Siliconix
MOSFET N-CH 100V 131A TO263



SUM70N04-07

VBSEMI



SUM65N20-30

Electro-Films (EFI) / Vishay

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 Alleco 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:
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card,
PayPal.



Your Faithful Supply Chain Partner -



Efficient Supply
Management



Cost-Saving
Procurement



Fast Sourcing &
Delivery

Contact us if you have any questions.



Phone
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Email
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Certifications & Memberships



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