



Image may be representation.
See specifications for product details.



STD7NM80

| | |
|--------------------------|---------------------------------------|
| Manufacturer Part Number | STD7NM80 |
| Manufacturer | STMicroelectronics |
| Allelco Part Number | 32D-STD7NM80 |
| ECAD Model | PCB Footprint and Symbol |
| Parts Description | MOSFET N-CH 800V 6.5A DPAK |
| Package | TO-252-3, DPak (2 Leads + Tab), SC-63 |
| Data sheet | STx7NM80(-1) Datasheet.pdf |
| RoHs Status | ROHS3 Compliant |

Get a Quote

STD7NM80 - STMicroelectronics.New Original in Stock. Download Linear Technology STD7NM80 datasheet/specifications on AllelcoElec.com.
Request a quote for STD7NM80, please send us email: info@allelco.com

Specifications

STD7NM80 Tech Specifications

STD7NM80 - STMicroelectronics technical specifications, attributes, parameters

| Product Attribute | Attribute Value | Product Attribute | Attribute Value |
|-------------------------|---------------------------------------|----------------------------------------|--------------------|
| Manufacturer | STMicroelectronics | Operating Temperature | -55°C ~ 150°C (TJ) |
| Vgs(th) (Max) @ Id | 5V @ 250µA | Mounting Type | Surface Mount |
| Vgs (Max) | ±30V | Input Capacitance (Ciss) (Max) @ Vds | 620 pF @ 25 V |
| Technology | MOSFET (Metal Oxide) | Gate Charge (Qg) (Max) @ Vgs | 18 nC @ 10 V |
| Supplier Device Package | DPAK | FET Type | N-Channel |
| Series | MDmesh™ | FET Feature | - |
| Rds On (Max) @ Id, Vgs | 1.050hm @ 3.25A, 10V | Drive Voltage (Max Rds On, Min Rds On) | 10V |
| Power Dissipation (Max) | 90W (Tc) | Drain to Source Voltage (Vdss) | 800 V |
| Package / Case | TO-252-3, DPak (2 Leads + Tab), SC-63 | Current - Continuous Drain (Id) @ 25°C | 6.5A (Tc) |
| Package | Tape & Reel (TR) | Base Product Number | STD7 |

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STD7NM80

| Product Attribute | | | | |
|----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Part Number | STD7NM80 | STD7NS20T4 | STD80N3LL | STD7NM60N |
| Manufacturer | STMicroelectronics | STMicroelectronics | STMicroelectronics | STMicroelectronics |
| FET Type | N-Channel | N-Channel | N-Channel | N-Channel |
| Series | MDmesh™ | MESH OVERLAY™ | - | MDmesh™ II |
| Gate Charge (Qg) (Max) @ Vgs | 18 nC @ 10 V | 45 nC @ 10 V | 18 nC @ 4.5 V | 14 nC @ 10 V |
| Current - Continuous Drain (Id) @ 25°C | 6.5A (Tc) | 7A (Tc) | 80A (Tc) | 5A (Tc) |
| Rds On (Max) @ Id, Vgs | 1.050hm @ 3.25A, 10V | 400m0hm @ 3.5A, 10V | 5.2m0hm @ 40A, 10V | 900m0hm @ 2.5A, 10V |
| Package | Tape & Reel (TR) | Tape & Reel (TR) | Tape & Reel (TR) | Tape & Reel (TR) |
| FET Feature | - | - | - | - |
| Drive Voltage (Max Rds On, Min Rds On) | 10V | 10V | 4.5V, 10V | 10V |
| Technology | MOSFET (Metal Oxide) | MOSFET (Metal Oxide) | MOSFET (Metal Oxide) | MOSFET (Metal Oxide) |
| Drain to Source Voltage (Vdss) | 800 V | 200 V | 30 V | 600 V |
| Input Capacitance (Ciss) (Max) @ Vds | 620 pF @ 25 V | 540 pF @ 25 V | 1640 pF @ 25 V | 363 pF @ 50 V |
| Operating Temperature | -55°C ~ 150°C (TJ) | 150°C (TJ) | -55°C ~ 175°C (TJ) | 150°C (TJ) |
| Supplier Device Package | DPAK | DPAK | D-PAK (TO-252) | DPAK |
| Vgs (Max) | ±30V | ±20V | ±20V | ±25V |
| Package / Case | TO-252-3, DPak (2 Leads + Tab), SC-63 | TO-252-3, DPak (2 Leads + Tab), SC-63 | TO-252-3, DPak (2 Leads + Tab), SC-63 | TO-252-3, DPak (2 Leads + Tab), SC-63 |
| Power Dissipation (Max) | 90W (Tc) | 45W (Tc) | 75W (Tc) | 45W (Tc) |
| Base Product Number | STD7 | STD7NS20 | STD80 | STD7NM60 |
| Mounting Type | Surface Mount | Surface Mount | Surface Mount | Surface Mount |
| Vgs(th) (Max) @ Id | 5V @ 250µA | 4V @ 250µA | 2.5V @ 250µA | 4V @ 250µA |

STD7NM80 Datasheet PDF

Download STD7NM80 pdf datasheets and STMicroelectronics documentation for STD7NM80 - STMicroelectronics.

Datasheets

STx7NM80(-1) Datasheet.pdf

PCN Packaging



















Box Label Chg 28/Jul/2016.pdf

Mult Dev Inner Box Chg 9/Dec/2021.pdf

PCN Assembly/Origin

Customers Also Interested in

Recommended Products

| | | | | | |
|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
|  life.augmented |  life.augmented |  life.augmented |  |  life.augmented |  life.augmented |
| STD7NS20T4 MOS STMicroelectronics | STD7NM60N-1 STMicroelectronics | STD7NM50N D7NM50N STMicroelectronics | STD7NS20T4 STMicroelectronics MOSFET N-CH 200V 7A DPAK | STD80N3LL STMicroelectronics MOSFET N-CH 30V 80A DPAK | STD7NM60N 7NM60N STMicroelectronics |
|  life.augmented |  |  |  |  life.augmented |  |
| STD7NM60N MOS STMicroelectronics | STD7NM60N STMicroelectronics MOSFET N-CH 600V 5A DPAK | STD80N6F6 STMicroelectronics MOSFET N-CH 60V 80A DPAK | STD7NM80-1 STMicroelectronics MOSFET N-CH 800V 6.5A TPAK | STD7NM60-1 STMicroelectronics | STD7NM64N STMicroelectronics MOSFET N-CH 640V 5A DPAK |
|  |  |  life.augmented |  life.augmented |  life.augmented |  |
| STD80N4F6 STMicroelectronics MOSFET N-CH 40V 80A DPAK | STD7NM50N STMicroelectronics MOSFET N-CH 500V 5A DPAK | STD7NS20 STMicroelectronics | STD7NK40ZT4 MOS STMicroelectronics | STD7NM64D STMicroelectronics | STD80N10F7 STMicroelectronics MOSFET N-CH 100V 70A DPAK |

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 +00852 9146 4856 |  Email info@alleco.com |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|

Certifications & Memberships



View More

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