

# NDBA180N10BT4H

## NDBA180N10BT4H Information



For Reference Only

Part Number NDBA180N10BT4H
Manufacturer ON Semiconductor

Category Discrete Semiconductor Products
Transistors - FETs, MOSFETs - Single

**Description** MOSFET N-CH 100V 180A DPAK

Package TO-263-3, D2Pak (2 Leads + Tab), TO-263AB

For the pricing/inventory/lead time, please contact

us

Website: https://www.heisener.com E-mail: salesdept@heisener.com



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# NDBA180N10BT4H Specifications

| Manufacturer Part Number         NDBA180N10BT4H           Manufacturer         ON Semiconductor           Category         Discrete Semiconductor Products           Transistors - FETs, MOSFETs - Single           Package         TO-263-3, D2Pak (2 Leads + Tab), TO-263AB           Series         -           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         100V           Current - Continuous Drain (Id) @ 25°C         180A (Ta)           Drive Voltage (Max Rds On, Min Rds On)         10V, 15V           Vgs(th) (Max) @ Id         4V @ ImA           Gate Charge (Qg) (Max) @ Vgs         95nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         6950pF @ 50V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         200W (Tc)           Rds On (Max) @ Id, Vgs         2.8 mOhm @ 50A, 15V           Operating Temperature         175°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         D2PAK (TO-263)           Package / Case         TO-263-3, D2Pak (2 Leads + Tab), TO-263AB  |  |   |
|--|--|---|
| CategoryDiscrete Semiconductor ProductsTransistors - FETs, MOSFETs - SinglePackageTO-263-3, D2Pak (2 Leads + Tab), TO-263ABSeries-FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)100VCurrent - Continuous Drain (Id) @ 25°C180A (Ta)Drive Voltage (Max Rds On, Min Rds On)10V, 15VVgs(th) (Max) @ Id4V @ ImAGate Charge (Qg) (Max) @ Vgs95nC @ 10VInput Capacitance (Ciss) (Max) @ Vds6950pF @ 50VVgs (Max)±20VFET Feature-Power Dissipation (Max)200W (Tc)Rds On (Max) @ Id, Vgs2.8 mOhm @ 50A, 15VOperating Temperature175°C (TJ)Mounting TypeSurface MountSupplier Device PackageD2PAK (TO-263)Package / CaseTO-263-3, D2Pak (2 Leads + Tab), TO-263AB  | Manufacturer Part Number               | NDBA180N10BT4H                            |
| Package         TO-263-3, D2Pak (2 Leads + Tab), TO-263AB           Series         -           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         100V           Current - Continuous Drain (Id) @ 25°C         180A (Ta)           Drive Voltage (Max Rds On, Min Rds On)         10V, 15V           Vgs(th) (Max) @ Id         4V @ 1mA           Gate Charge (Qg) (Max) @ Vgs         95nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         6950pF @ 50V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         200W (Tc)           Rds On (Max) @ Id, Vgs         2.8 mOhm @ 50A, 15V           Operating Temperature         175°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         D2PAK (TO-263)           Package / Case         TO-263-3, D2Pak (2 Leads + Tab), TO-263AB  | Manufacturer                           | ON Semiconductor                          |
| Package TO-263-3, D2Pak (2 Leads + Tab), TO-263AB  Series -  FET Type N-Channel  Technology MOSFET (Metal Oxide)  Drain to Source Voltage (Vdss) 100V  Current - Continuous Drain (Id) @ 25°C 180A (Ta)  Drive Voltage (Max Rds On, Min Rds On) 10V, 15V  Vgs(th) (Max) @ Id 4V @ 1mA  Gate Charge (Qg) (Max) @ Vgs 95nC @ 10V  Input Capacitance (Ciss) (Max) @ Vds 6950pF @ 50V  Vgs (Max) ±20V  FET Feature -  Power Dissipation (Max) 200W (Tc)  Rds On (Max) @ Id, Vgs 2.8 mOhm @ 50A, 15V  Operating Temperature 175°C (TJ)  Mounting Type Surface Mount  Supplier Device Package D2PAK (TO-263)  Package / Case Tous 100V  N-Channel  NoV (To  Nov  | Category                               | Discrete Semiconductor Products           |
| Series-FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)100VCurrent - Continuous Drain (Id) @ 25°C180A (Ta)Drive Voltage (Max Rds On, Min Rds On)10V, 15VVgs(th) (Max) @ Id4V @ 1mAGate Charge (Qg) (Max) @ Vgs95nC @ 10VInput Capacitance (Ciss) (Max) @ Vds6950pF @ 50VVgs (Max)±20VFET Feature-Power Dissipation (Max)200W (Tc)Rds On (Max) @ Id, Vgs2.8 mOhm @ 50A, 15VOperating Temperature175°C (TJ)Mounting TypeSurface MountSupplier Device PackageD2PAK (TO-263)Package / CaseTO-263-3, D2Pak (2 Leads + Tab), TO-263AB   |  | Transistors - FETs, MOSFETs - Single      |
| FET Type  Technology  MOSFET (Metal Oxide)  Drain to Source Voltage (Vdss)  100V  Current - Continuous Drain (Id) @ 25°C  180A (Ta)  Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  Gate Charge (Qg) (Max) @ Vgs  10put Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  2.8 mOhm @ 50A, 15V  Operating Temperature  N-Channel  N-Channel  MOSFET (Metal Oxide)  180A (Ta)  100V  | Package                                | TO-263-3, D2Pak (2 Leads + Tab), TO-263AB |
| Technology Drain to Source Voltage (Vdss) 100V Current - Continuous Drain (Id) @ 25°C 180A (Ta) Drive Voltage (Max Rds On, Min Rds On) 10V, 15V Vgs(th) (Max) @ Id 4V @ 1mA Gate Charge (Qg) (Max) @ Vgs 1nput Capacitance (Ciss) (Max) @ Vds 6950pF @ 50V Vgs (Max)  FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 0perating Temperature 175°C (TJ) Mounting Type Surface Mount Supplier Device Package Package / Case MOSFET (Metal Oxide) 100V 100V 1800 (Ta) 4V @ 1mA 4V @ 1mA 6950pF @ 50V 4V @ 10V  | Series                                 | -   |
| Drain to Source Voltage (Vdss)  Current - Continuous Drain (Id) @ 25°C  180A (Ta)  Drive Voltage (Max Rds On, Min Rds On)  10V, 15V  Vgs(th) (Max) @ Id  4V @ 1mA  Gate Charge (Qg) (Max) @ Vgs  1nput Capacitance (Ciss) (Max) @ Vds  6950pF @ 50V  Vgs (Max)  ±20V  FET Feature  - Power Dissipation (Max)  200W (Tc)  Rds On (Max) @ Id, Vgs  0perating Temperature  175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  D2PAK (TO-263)  Package / Case  100V  100V  4V @ 1mA  6950pF @ 50V  4V @ 1mA  6950pF @ 50V  200V  500V  500 | FET Type                               | N-Channel                                 |
| Current - Continuous Drain (Id) @ 25°C 180A (Ta)  Drive Voltage (Max Rds On, Min Rds On) 10V, 15V  Vgs(th) (Max) @ Id 4V @ 1mA  Gate Charge (Qg) (Max) @ Vgs 95nC @ 10V  Input Capacitance (Ciss) (Max) @ Vds 6950pF @ 50V  Vgs (Max) ±20V  FET Feature -  Power Dissipation (Max) 200W (Tc)  Rds On (Max) @ Id, Vgs 2.8 mOhm @ 50A, 15V  Operating Temperature 175°C (TJ)  Mounting Type Surface Mount  Supplier Device Package D2PAK (TO-263)  Package / Case TO-263-3, D2Pak (2 Leads + Tab), TO-263AB  | Technology                             | MOSFET (Metal Oxide)                      |
| Drive Voltage (Max Rds On, Min Rds On)  Vgs(th) (Max) @ Id  4V @ 1mA  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  6950pF @ 50V  Vgs (Max)  ±20V  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  2.8 mOhm @ 50A, 15V  Operating Temperature  Mounting Type  Surface Mount  Supplier Device Package  D2PAK (TO-263)  Package / Case  TO-263-3, D2Pak (2 Leads + Tab), TO-263AB  | Drain to Source Voltage (Vdss)         | 100V                                      |
| Vgs(th) (Max) @ Id  Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  Operating Temperature  Mounting Type  Surface Mount  Supplier Device Package  D2PAK (TO-263)  Package / Case  4V @ 1mA  40  | Current - Continuous Drain (Id) @ 25°C | 180A (Ta)                                 |
| Gate Charge (Qg) (Max) @ Vgs  Input Capacitance (Ciss) (Max) @ Vds  6950pF @ 50V  Vgs (Max)  ±20V  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  2.8 mOhm @ 50A, 15V  Operating Temperature  175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  D2PAK (TO-263)  Package / Case  TO-263-3, D2Pak (2 Leads + Tab), TO-263AB  | Drive Voltage (Max Rds On, Min Rds On) | 10V, 15V                                  |
| Input Capacitance (Ciss) (Max) @ Vds  Vgs (Max)  ±20V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  2.8 mOhm @ 50A, 15V  Operating Temperature  175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  D2PAK (TO-263)  Package / Case  TO-263-3, D2Pak (2 Leads + Tab), TO-263AB  | Vgs(th) (Max) @ Id                     | 4V @ 1mA                                  |
| Vgs (Max)±20VFET Feature-Power Dissipation (Max)200W (Tc)Rds On (Max) @ Id, Vgs2.8 mOhm @ 50A, 15VOperating Temperature175°C (TJ)Mounting TypeSurface MountSupplier Device PackageD2PAK (TO-263)Package / CaseTO-263-3, D2Pak (2 Leads + Tab), TO-263AB  | Gate Charge (Qg) (Max) @ Vgs           | 95nC @ 10V                                |
| FET Feature - Cover Dissipation (Max) 200W (Tc) Rds On (Max) @ Id, Vgs 2.8 mOhm @ 50A, 15V Operating Temperature 175°C (TJ) Mounting Type Surface Mount Supplier Device Package D2PAK (TO-263) Package / Case TO-263-3, D2Pak (2 Leads + Tab), TO-263AB  | Input Capacitance (Ciss) (Max) @ Vds   | 6950pF @ 50V                              |
| Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  2.8 mOhm @ 50A, 15V  Operating Temperature  175°C (TJ)  Mounting Type  Surface Mount  Supplier Device Package  D2PAK (TO-263)  Package / Case  TO-263-3, D2Pak (2 Leads + Tab), TO-263AB  | Vgs (Max)                              | ±20V                                      |
| Rds On (Max) @ Id, Vgs2.8 mOhm @ 50A, 15VOperating Temperature175°C (TJ)Mounting TypeSurface MountSupplier Device PackageD2PAK (TO-263)Package / CaseTO-263-3, D2Pak (2 Leads + Tab), TO-263AB   | FET Feature                            | -   |
| Operating Temperature 175°C (TJ)  Mounting Type Surface Mount  Supplier Device Package D2PAK (TO-263)  Package / Case TO-263-3, D2Pak (2 Leads + Tab), TO-263AB  | Power Dissipation (Max)                | 200W (Tc)                                 |
| Mounting Type Surface Mount Supplier Device Package D2PAK (TO-263) Package / Case TO-263-3, D2Pak (2 Leads + Tab), TO-263AB  | Rds On (Max) @ Id, Vgs                 | 2.8 mOhm @ 50A, 15V                       |
| Supplier Device Package  D2PAK (TO-263)  Package / Case  D2PAK (TO-263-3, D2Pak (2 Leads + Tab), TO-263AB  | Operating Temperature                  | 175°C (TJ)                                |
| Package / Case TO-263-3, D2Pak (2 Leads + Tab), TO-263AB   | Mounting Type                          | Surface Mount                             |
|  | Supplier Device Package                | D2PAK (TO-263)                            |
| Report errors?   | Package / Case                         | TO-263-3, D2Pak (2 Leads + Tab), TO-263AB |
|  |  | Report errors?                            |

#### NDBA180N10BT4H Guarantees



### **Quality Guarantees**

We provide 90 days warranty. \*

If the items you received were not in perfect quality, we would be responsible for your refund or replacement, but the items must be returned in their original condition.



#### **Service Guarantees**

We guarantee 100% customer satisfaction.

Our experienced sales team and tech support team back our services to satisfy all our customers.

### NDBA180N10BT4H Payment Methods



















### NDBA180N10BT4H Shipping Methods













If you have any question about NDBA180N10BT4H, please do not hesitate to contact us!

Website: https://www.heisener.com E-mail: salesdept@heisener.com