

**STD4NK50Z-1 Information**


For Reference Only

**Part Number** [STD4NK50Z-1](#)  
**Manufacturer** STMicroelectronics  
**Category** Discrete Semiconductor Products  
[Transistors - FETs, MOSFETs - Single](#)  
**Description** MOSFET N-CH 500V 3A IPAK  
**Package** TO-251-3 Short Leads, IPak, TO-251AA  
 For the pricing/inventory/lead time, please contact us  
 Website: <https://www.heisener.com>  
 E-mail: [salesdept@heisener.com](mailto:salesdept@heisener.com)


[Request a Quote](#)
**Certified Quality**

Heisener's commitment to quality has shaped our processes for sourcing, testing, shipping, and every step in between. This foundation underlies each component we sell.


**STD4NK50Z-1 Specifications**

|  |   |
|--|---|
| Manufacturer Part Number               | <a href="#">STD4NK50Z-1</a>   |
| Manufacturer                           | STMicroelectronics  |
| Category                               | Discrete Semiconductor Products<br><a href="#">Transistors - FETs, MOSFETs - Single</a> |
| Package                                | TO-251-3 Short Leads, IPak, TO-251AA  |
| Series                                 | SuperMESH?  |
| FET Type                               | N-Channel   |
| Technology                             | MOSFET (Metal Oxide)  |
| Drain to Source Voltage (Vdss)         | 500V  |
| Current - Continuous Drain (Id) @ 25°C | 3A (Tc)   |
| Drive Voltage (Max Rds On, Min Rds On) | 10V   |
| Vgs(th) (Max) @ Id                     | 4.5V @ 50µA   |
| Gate Charge (Qg) (Max) @ Vgs           | 12nC @ 10V  |
| Input Capacitance (Ciss) (Max) @ Vds   | 310pF @ 25V   |
| Vgs (Max)                              | ±30V  |
| FET Feature                            | -   |
| Power Dissipation (Max)                | 45W (Tc)  |
| Rds On (Max) @ Id, Vgs                 | 2.7 Ohm @ 1.5A, 10V   |
| Operating Temperature                  | -55°C ~ 150°C (TJ)  |
| Mounting Type                          | Through Hole  |
| Supplier Device Package                | I-Pak   |
| Package / Case                         | TO-251-3 Short Leads, IPak, TO-251AA  |

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## STD4NK50Z-1 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.

## STD4NK50Z-1 Payment Methods



## STD4NK50Z-1 Shipping Methods



If you have any question about STD4NK50Z-1, please do not hesitate to contact us!

Website: <https://www.heisener.com>

E-mail: [salesdept@heisener.com](mailto:salesdept@heisener.com)