

**FDD86540 Information**


For Reference Only

**Part Number** [FDD86540](#)  
**Manufacturer** Fairchild/ON Semiconductor  
**Category** Discrete Semiconductor Products  
[Transistors - FETs, MOSFETs - Single](#)  
**Description** MOSFET N-CH 60V 50A DPAK-3  
**Package** TO-252-3, DPak (2 Leads + Tab), SC-63  
 For the pricing/inventory/lead time, please contact us  
 Website: <https://www.heisener.com>  
 E-mail: [salesdept@heisener.com](mailto:salesdept@heisener.com)


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**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.


**FDD86540 Specifications**

Manufacturer Part Number	<a href="#">FDD86540</a>
Manufacturer	Fairchild/ON Semiconductor
Category	Discrete Semiconductor Products <a href="#">Transistors - FETs, MOSFETs - Single</a>
Package	TO-252-3, DPak (2 Leads + Tab), SC-63
Series	PowerTrench?
FET Type	N-Channel
Technology	MOSFET (Metal Oxide)
Drain to Source Voltage (V <sub>dss</sub> )	60V
Current - Continuous Drain (I <sub>d</sub> ) @ 25°C	21.5A (T <sub>a</sub> ), 50A (T <sub>c</sub> )
Drive Voltage (Max R <sub>ds On</sub> , Min R <sub>ds On</sub> )	8V, 10V
V <sub>gs(th)</sub> (Max) @ I <sub>d</sub>	4V @ 250μA
Gate Charge (Q <sub>g</sub> ) (Max) @ V <sub>gs</sub>	90nC @ 10V
Input Capacitance (C <sub>iss</sub> ) (Max) @ V <sub>ds</sub>	6340pF @ 30V
V <sub>gs</sub> (Max)	±20V
FET Feature	-
Power Dissipation (Max)	3.1W (T <sub>a</sub> ), 127W (T <sub>c</sub> )
R <sub>ds On</sub> (Max) @ I <sub>d</sub> , V <sub>gs</sub>	4.1 mOhm @ 21.5A, 10V
Operating Temperature	-55°C ~ 150°C (T <sub>J</sub> )
Mounting Type	Surface Mount
Supplier Device Package	D-PAK (TO-252AA)
Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63

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## FDD86540 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.

## FDD86540 Payment Methods



## FDD86540 Shipping Methods



If you have any question about FDD86540, please do not hesitate to contact us!

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