

**AOI538 Information**


For Reference Only

**Part Number** [AOI538](#)  
**Manufacturer** Alpha & Omega Semiconductor Inc.  
**Category** Discrete Semiconductor Products  
[Transistors - FETs, MOSFETs - Single](#)  
**Description** MOSFET N-CH 30V 34A  
**Package** TO-251-3 Stub Leads, IPak  
 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.


**AOI538 Specifications**

Manufacturer Part Number	<a href="#">AOI538</a>
Manufacturer	Alpha & Omega Semiconductor Inc.
Category	Discrete Semiconductor Products <a href="#">Transistors - FETs, MOSFETs - Single</a>
Package	TO-251-3 Stub Leads, IPak
Series	AlphaMOS
FET Type	N-Channel
Technology	MOSFET (Metal Oxide)
Drain to Source Voltage (V <sub>ds</sub> )	30V
Current - Continuous Drain (I <sub>d</sub> ) @ 25°C	34A (T <sub>a</sub> ), 70A (T <sub>c</sub> )
Drive Voltage (Max R <sub>ds</sub> On, Min R <sub>ds</sub> On)	4.5V, 10V
V <sub>gs</sub> (th) (Max) @ I <sub>d</sub>	2.2V @ 250μA
Gate Charge (Q <sub>g</sub> ) (Max) @ V <sub>gs</sub>	42nC @ 10V
Input Capacitance (C <sub>iss</sub> ) (Max) @ V <sub>ds</sub>	2160pF @ 15V
V <sub>gs</sub> (Max)	±20V
FET Feature	-
Power Dissipation (Max)	4.2W (T <sub>a</sub> ), 24W (T <sub>c</sub> )
R <sub>ds</sub> On (Max) @ I <sub>d</sub> , V <sub>gs</sub>	3.1 mOhm @ 20A, 10V
Operating Temperature	-55°C ~ 175°C (T <sub>J</sub> )
Mounting Type	Surface Mount
Supplier Device Package	TO-251A
Package / Case	TO-251-3 Stub Leads, IPak

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## AOI538 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.

## AOI538 Payment Methods



## AOI538 Shipping Methods



If you have any question about AOI538, please do not hesitate to contact us!

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

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