



## AOZ5006QI-01 Information



For Reference Only

Part Number AOZ5006QI-01

Manufacturer Alpha & Omega Semiconductor Inc.

Category Integrated Circuits (ICs)

PMIC - Voltage Regulators - DC DC Switching

Regulators

**Description** IC REG BUCK ADJ 35A SYNC 40QFN

Package 40-WFQFN Exposed Pad

For the pricing/inventory/lead time, please contact

us

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



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## **AOZ5006QI-01 Specifications**

Manufacturer Part Number         AOZ5006QI-01           Manufacturer         Alpha & Omega Semiconductor Inc.           Category         Integrated Circuits (ICs)           Package         40-WFQFN Exposed Pad           Series         DrMOS           Function         Step-Down           Output Configuration         Positive           Topology         Buck           Output Type         Adjustable           Number of Outputs         1           Voltage - Input (Min)         4.5V           Voltage - Output (Min/Fixed)         4.5V           Voltage - Output (Min/Fixed)         4.5V           Voltage - Output (Min/Fixed)         4.5V           Voltage - Output (Max)         16V           Current - Output         35A           Frequency - Switching         200kHz ~ 1MHz           Synchronous Rectifier         Yes           Operating Temperature         -40°C ~ 85°C (TA)           Mounting Type         Surface Mount           Package / Case         40-WFQFN Exposed Pad           Supplier Device Package         40-QFN (6x6)	• •	
Category         Integrated Circuits (ICs)           PMIC - Voltage Regulators - DC DC Switching Regulators           Package         40-WFQFN Exposed Pad           Series         DrMOS           Function         Step-Down           Output Configuration         Positive           Topology         Buck           Output Type         Adjustable           Number of Outputs         1           Voltage - Input (Min)         4.5V           Voltage - Input (Max)         16V           Voltage - Output (Min/Fixed)         4.5V           Voltage - Output (Max)         16V           Current - Output         35A           Frequency - Switching         200kHz ~ 1MHz           Synchronous Rectifier         Yes           Operating Temperature         -40°C ~ 85°C (TA)           Mounting Type         Surface Mount           Package / Case         40-WFQFN Exposed Pad           Supplier Device Package         40-QFN (6x6)	Manufacturer Part Number	AOZ5006QI-01
Package 40-WFQFN Exposed Pad Series DrMOS Function Step-Down Output Configuration Positive Topology Buck Output Type Adjustable Number of Outputs I 1 Voltage - Input (Min) 4.5V Voltage - Input (Min/Fixed) 4.5V Voltage - Output (Min/Fixed) 4.5V Voltage - Output (Min/Fixed) 4.5V  Voltage - Output (Max) 16V Current - Output (Max) 16V Current - Output (Max) 200kHz ~ 1MHz Synchronous Rectifier Yes Operating Temperature -40°C ~ 85°C (TA) Mounting Type Surface Mount Package / Case 40-WFQFN Exposed Pad Supplier Device Package 40-QFN (6x6)	Manufacturer	Alpha & Omega Semiconductor Inc.
Package         40-WFQFN Exposed Pad           Series         DrMOS           Function         Step-Down           Output Configuration         Positive           Topology         Buck           Output Type         Adjustable           Number of Outputs         1           Voltage - Input (Min)         4.5V           Voltage - Output (Max)         16V           Voltage - Output (Min/Fixed)         4.5V           Voltage - Output (Max)         16V           Current - Output         35A           Frequency - Switching         200kHz ~ 1MHz           Synchronous Rectifier         Yes           Operating Temperature         -40°C ~ 85°C (TA)           Mounting Type         Surface Mount           Package / Case         40-WFQFN Exposed Pad           Supplier Device Package         40-QFN (6x6)	Category	Integrated Circuits (ICs)
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FunctionStep-DownOutput ConfigurationPositiveTopologyBuckOutput TypeAdjustableNumber of Outputs1Voltage - Input (Min)4.5VVoltage - Input (Max)16VVoltage - Output (Min/Fixed)4.5VVoltage - Output (Max)16VCurrent - Output35AFrequency - Switching200kHz ~ 1MHzSynchronous RectifierYesOperating Temperature-40°C ~ 85°C (TA)Mounting TypeSurface MountPackage / Case40-WFQFN Exposed PadSupplier Device Package40-QFN (6x6)	Package	40-WFQFN Exposed Pad
Output ConfigurationPositiveTopologyBuckOutput TypeAdjustableNumber of Outputs1Voltage - Input (Min)4.5VVoltage - Input (Max)16VVoltage - Output (Min/Fixed)4.5VVoltage - Output (Max)16VCurrent - Output35AFrequency - Switching200kHz ~ 1MHzSynchronous RectifierYesOperating Temperature-40°C ~ 85°C (TA)Mounting TypeSurface MountPackage / Case40-WFQFN Exposed PadSupplier Device Package40-QFN (6x6)	Series	DrMOS
Topology Output Type Adjustable Number of Outputs 1 Voltage - Input (Min) Voltage - Input (Max) Voltage - Output (Min/Fixed) Voltage - Output (Min/Fixed) Voltage - Output (Max) 16V Voltage - Output (Max) 16V Current - Output 35A Frequency - Switching 200kHz ~ 1MHz Synchronous Rectifier Yes Operating Temperature -40°C ~ 85°C (TA) Mounting Type Surface Mount Package / Case 40-WFQFN Exposed Pad Supplier Device Package	Function	Step-Down
Output Type Adjustable  Number of Outputs 1  Voltage - Input (Min) 4.5V  Voltage - Input (Max) 16V  Voltage - Output (Min/Fixed) 4.5V  Voltage - Output (Min/Fixed) 16V  Current - Output (Max) 16V  Current - Output (Max) 25A  Frequency - Switching 200kHz ~ 1MHz  Synchronous Rectifier Yes  Operating Temperature -40°C ~ 85°C (TA)  Mounting Type Surface Mount  Package / Case 40-WFQFN Exposed Pad  Supplier Device Package 40-QFN (6x6)	Output Configuration	Positive
Number of Outputs1Voltage - Input (Min)4.5VVoltage - Input (Max)16VVoltage - Output (Min/Fixed)4.5VVoltage - Output (Max)16VCurrent - Output35AFrequency - Switching200kHz ~ 1MHzSynchronous RectifierYesOperating Temperature-40°C ~ 85°C (TA)Mounting TypeSurface MountPackage / Case40-WFQFN Exposed PadSupplier Device Package40-QFN (6x6)	Topology	Buck
Voltage - Input (Min)  Voltage - Input (Max)  16V  Voltage - Output (Min/Fixed)  4.5V  Voltage - Output (Min/Fixed)  4.5V  Voltage - Output (Max)  16V  Current - Output  35A  Frequency - Switching  200kHz ~ 1MHz  Synchronous Rectifier  Yes  Operating Temperature  -40°C ~ 85°C (TA)  Mounting Type  Surface Mount  Package / Case  40-WFQFN Exposed Pad  Supplier Device Package  40-QFN (6x6)	Output Type	Adjustable
Voltage - Input (Max)  Voltage - Output (Min/Fixed)  4.5V  Voltage - Output (Max)  16V  Current - Output  35A  Frequency - Switching  200kHz ~ 1MHz  Synchronous Rectifier  Yes  Operating Temperature  -40°C ~ 85°C (TA)  Mounting Type  Surface Mount  Package / Case  40-WFQFN Exposed Pad  Supplier Device Package  40-QFN (6x6)	Number of Outputs	1
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Voltage - Output (Max)  Current - Output  35A  Frequency - Switching  200kHz ~ 1MHz  Synchronous Rectifier  Yes  Operating Temperature  -40°C ~ 85°C (TA)  Mounting Type  Surface Mount  Package / Case  40-WFQFN Exposed Pad  Supplier Device Package  40-QFN (6x6)	Voltage - Input (Max)	16V
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Synchronous RectifierYesOperating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ (TA)Mounting TypeSurface MountPackage / Case $40\text{-WFQFN}$ Exposed PadSupplier Device Package $40\text{-QFN}$ (6x6)	Current - Output	35A
Operating Temperature  -40°C ~ 85°C (TA)  Mounting Type  Surface Mount  Package / Case  40-WFQFN Exposed Pad  Supplier Device Package  40-QFN (6x6)	Frequency - Switching	200kHz ~ 1MHz
Mounting Type Surface Mount Package / Case 40-WFQFN Exposed Pad Supplier Device Package 40-QFN (6x6)	Synchronous Rectifier	Yes
Package / Case 40-WFQFN Exposed Pad Supplier Device Package 40-QFN (6x6)	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package 40-QFN (6x6)	Mounting Type	Surface Mount
	Package / Case	40-WFQFN Exposed Pad
Report errors?	Supplier Device Package	40-QFN (6x6)
		Report errors?

### **AOZ5006QI-01 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.

### **AOZ5006QI-01 Payment Methods**



















# **AOZ5006QI-01 Shipping Methods**













If you have any question about AOZ5006QI-01, please do not hesitate to contact us!

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