



MIC4421YN Information



For Reference Only

Part Number MIC4421YN

Manufacturer Microchip Technology

Category Integrated Circuits (ICs)
PMIC - Gate Drivers

Description IC DRIVER MOSFET 9A LS 8-DIP

Package 8-DIP (0.300", 7.62mm)

For the pricing/inventory/lead time, please contact

us

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



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MIC4421YN Specifications

Manufacturer Part Number Manufacturer Microchip Technology Integrated Circuits (ICs) PMIC - Gate Drivers Package 8-DIP (0.300", 7.62mm) Series Driven Configuration Low-Side Channel Type Single Number of Drivers 1 Gate Type IGBT, N-Channel MOSFET Voltage - Supply 4.5 V ~ 18 V Logic Voltage - VIL, VIH 0.8V, 2.4V Current - Peak Output (Source, Sink) Input Type High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature 40°C ~ 150°C (TJ) Mounting Type Through Hole	•	
Category Integrated Circuits (ICs) PMIC - Gate Drivers Package 8-DIP (0.300", 7.62mm) Series - Driven Configuration Low-Side Channel Type Single Number of Drivers 1 Gate Type IGBT, N-Channel MOSFET Voltage - Supply 4.5 V ~ 18 V Logic Voltage - VIL, VIH 0.8V, 2.4V Current - Peak Output (Source, Sink) Input Type High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature -40°C ~ 150°C (TJ)	Manufacturer Part Number	MIC4421YN
PMIC - Gate Drivers Package 8-DIP (0.300", 7.62mm) Series - Driven Configuration Low-Side Channel Type Single Number of Drivers 1 Gate Type IGBT, N-Channel MOSFET Voltage - Supply 4.5 V ~ 18 V Logic Voltage - VIL, VIH 0.8V, 2.4V Current - Peak Output (Source, Sink) 9A, 9A Input Type Inverting High Side Voltage - Max (Bootstrap) - Rise / Fall Time (Typ) 20ns, 24ns Operating Temperature -40°C ~ 150°C (TJ)	Manufacturer	Microchip Technology
Package 8-DIP (0.300", 7.62mm) Series - Driven Configuration Low-Side Channel Type Single Number of Drivers 1 Gate Type IGBT, N-Channel MOSFET Voltage - Supply 4.5 V ~ 18 V Logic Voltage - VIL, VIH 0.8V, 2.4V Current - Peak Output (Source, Sink) 9A, 9A Input Type Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) 20ns, 24ns Operating Temperature -40°C ~ 150°C (TJ)	Category	Integrated Circuits (ICs)
Series - Driven Configuration Low-Side Channel Type Single Number of Drivers 1 Gate Type IGBT, N-Channel MOSFET Voltage - Supply 4.5 V ~ 18 V Logic Voltage - VIL, VIH 0.8V, 2.4V Current - Peak Output (Source, Sink) 9A, 9A Input Type Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) 20ns, 24ns Operating Temperature -40°C ~ 150°C (TJ)		PMIC - Gate Drivers
Driven Configuration Channel Type Single Number of Drivers 1 Gate Type IGBT, N-Channel MOSFET Voltage - Supply 4.5 V ~ 18 V Logic Voltage - VIL, VIH 0.8V, 2.4V Current - Peak Output (Source, Sink) Input Type Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature Low-Side Single 1 IGBT, N-Channel MOSFET 4.5 V ~ 18 V Logic Voltage - VIL, VIH 0.8V, 2.4V - VIII (Source, Sink) 9A, 9A Inverting - Cons, 24ns - 40°C ~ 150°C (TJ)	Package	8-DIP (0.300", 7.62mm)
Channel Type Number of Drivers 1 Gate Type IGBT, N-Channel MOSFET Voltage - Supply 4.5 V ~ 18 V Logic Voltage - VIL, VIH 0.8V, 2.4V Current - Peak Output (Source, Sink) Input Type Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature Single IGBT, N-Channel MOSFET 4.5 V ~ 18 V 0.8V, 2.4V 0.8V, 2.4V 0.8V, 2.4V 20.8V, 2.4V - 40°C ~ 150°C (TJ)	Series	-
Number of Drivers Gate Type IGBT, N-Channel MOSFET Voltage - Supply 4.5 V ~ 18 V Logic Voltage - VIL, VIH 0.8V, 2.4V Current - Peak Output (Source, Sink) Input Type Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature 1 4.5 V ~ 18 V 0.8V, 2.4V 0.8V, 2.4V 9A, 9A Inverting - 40°C ~ 150°C (TJ)	Driven Configuration	Low-Side
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	Channel Type	Single
Voltage - Supply 4.5 V \sim 18 V Logic Voltage - VIL, VIH 0.8V, 2.4V Current - Peak Output (Source, Sink) 9A, 9A Input Type Inverting High Side Voltage - Max (Bootstrap) - Rise / Fall Time (Typ) 20ns, 24ns Operating Temperature -40°C \sim 150°C (TJ)	Number of Drivers	1
Logic Voltage - VIL, VIH $0.8V, 2.4V$ Current - Peak Output (Source, Sink) $9A, 9A$ Input TypeInvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ) $20ns, 24ns$ Operating Temperature $-40^{\circ}\text{C} \sim 150^{\circ}\text{C}$ (TJ)	Gate Type	IGBT, N-Channel MOSFET
Current - Peak Output (Source, Sink) Input Type Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature 9A, 9A	Voltage - Supply	4.5 V ~ 18 V
Input Type Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) 20ns, 24ns Operating Temperature $-40^{\circ}\text{C} \sim 150^{\circ}\text{C}$ (TJ)	Logic Voltage - VIL, VIH	0.8V, 2.4V
High Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ) $20ns, 24ns$ Operating Temperature $-40^{\circ}\text{C} \sim 150^{\circ}\text{C}$ (TJ)	Current - Peak Output (Source, Sink)	9A, 9A
Rise / Fall Time (Typ) 20ns, 24ns Operating Temperature $-40^{\circ}\text{C} \sim 150^{\circ}\text{C}$ (TJ)	Input Type	Inverting
Operating Temperature $-40^{\circ}\text{C} \sim 150^{\circ}\text{C} \text{ (TJ)}$	High Side Voltage - Max (Bootstrap)	-
	Rise / Fall Time (Typ)	20ns, 24ns
Mounting Type Through Hole	Operating Temperature	-40°C ~ 150°C (TJ)
	Mounting Type	Through Hole
Package / Case 8-DIP (0.300", 7.62mm)	Package / Case	8-DIP (0.300", 7.62mm)
Supplier Device Package 8-PDIP	Supplier Device Package	8-PDIP
Report errors?		Report errors?

MIC4421YN 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.

MIC4421YN Payment Methods





















MIC4421YN Shipping Methods













If you have any question about MIC4421YN, please do not hesitate to contact us!

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