



### **MIC5021BN Information**



For Reference Only

Part Number MIC5021BN

Manufacturer Microchip Technology

Category Integrated Circuits (ICs)
PMIC - Gate Drivers

**Description** IC DRIVER MOSFET HI SIDE HS 8DIP

**Package** 8-DIP (0.300", 7.62mm)

For the pricing/inventory/lead time, please contact

us

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## **MIC5021BN Specifications**

Manufacturer Part Number         MIC5021BN           Manufacturer         Microchip Technology           Category         Integrated Circuits (ICs)           Package         8-DIP (0.300", 7.62mm)           Series         -           Driven Configuration         High-Side           Channel Type         Single           Number of Drivers         1           Gate Type         IGBT, N-Channel MOSFET           Voltage - Supply         12 V ~ 36 V           Logic Voltage - VIL, VIH         0.8V, 2V           Current - Peak Output (Source, Sink)         -           Input Type         Non-Inverting           High Side Voltage - Max (Bootstrap)         -           Rise / Fall Time (Typ)         400ns, 400ns           Operating Temperature         -40°C ~ 85°C (TA)           Mounting Type         Through Hole           Package / Case         8-DIP (0.300", 7.62mm)           Supplier Device Package         8-PDIP	-	
Category         Integrated Circuits (ICs)           PMIC - Gate Drivers           Package         8-DIP (0.300", 7.62mm)           Series         -           Driven Configuration         High-Side           Channel Type         Single           Number of Drivers         1           Gate Type         IGBT, N-Channel MOSFET           Voltage - Supply         12 V ~ 36 V           Logic Voltage - VIL, VIH         0.8V, 2V           Current - Peak Output (Source, Sink)         -           Input Type         Non-Inverting           High Side Voltage - Max (Bootstrap)         -           Rise / Fall Time (Typ)         400ns, 400ns           Operating Temperature         -40°C ~ 85°C (TA)           Mounting Type         Through Hole           Package / Case         8-DIP (0.300", 7.62mm)           Supplier Device Package         8-PDIP	Manufacturer Part Number	MIC5021BN
Package 8-DIP (0.300", 7.62mm)  Series - Driven Configuration High-Side Channel Type Single Number of Drivers 1 Gate Type IGBT, N-Channel MOSFET  Voltage - Supply 12 V ~ 36 V Logic Voltage - VIL, VIH 0.8V, 2V  Current - Peak Output (Source, Sink) - Input Type Non-Inverting High Side Voltage - Max (Bootstrap) - Rise / Fall Time (Typ) 400ns, 400ns Operating Temperature -40°C ~ 85°C (TA) Mounting Type Through Hole Package / Case 8-DIP (0.300", 7.62mm) Supplier Device Package	Manufacturer	Microchip Technology
Package8-DIP (0.300", 7.62mm)Series-Driven ConfigurationHigh-SideChannel TypeSingleNumber of Drivers1Gate TypeIGBT, N-Channel MOSFETVoltage - Supply12 V ~ 36 VLogic Voltage - VIL, VIH0.8V, 2VCurrent - Peak Output (Source, Sink)-Input TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)400ns, 400nsOperating Temperature-40°C ~ 85°C (TA)Mounting TypeThrough HolePackage / Case8-DIP (0.300", 7.62mm)Supplier Device Package8-PDIP	Category	Integrated Circuits (ICs)
Series - Driven Configuration High-Side Channel Type Single Number of Drivers 1 Gate Type IGBT, N-Channel MOSFET Voltage - Supply 12 V ~ 36 V Logic Voltage - VIL, VIH 0.8V, 2V Current - Peak Output (Source, Sink) - Input Type Non-Inverting High Side Voltage - Max (Bootstrap) - Rise / Fall Time (Typ) 400ns, 400ns Operating Temperature -40°C ~ 85°C (TA) Mounting Type Through Hole Package / Case 8-DIP (0.300", 7.62mm) Supplier Device Package		PMIC - Gate Drivers
Driven Configuration Channel Type Single Number of Drivers 1 Gate Type IGBT, N-Channel MOSFET Voltage - Supply 12 V ~ 36 V Logic Voltage - VIL, VIH 0.8V, 2V  Current - Peak Output (Source, Sink) Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) 400ns, 400ns Operating Temperature -40°C ~ 85°C (TA) Mounting Type Through Hole Package / Case 8-DIP (0.300", 7.62mm) Supplier Device Package	Package	8-DIP (0.300", 7.62mm)
Channel Type  Number of Drivers  1  Gate Type  IGBT, N-Channel MOSFET  Voltage - Supply  12 V ~ 36 V  Logic Voltage - VIL, VIH  0.8V, 2V  Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  400ns, 400ns  Operating Temperature  -40°C ~ 85°C (TA)  Mounting Type  Through Hole  Package / Case  8-DIP (0.300", 7.62mm)  Supplier Device Package	Series	-
Number of Drivers  Gate Type  IGBT, N-Channel MOSFET  Voltage - Supply  12 V ~ 36 V  Logic Voltage - VIL, VIH  0.8V, 2V  Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  -40°C ~ 85°C (TA)  Mounting Type  Through Hole  Package / Case  8-DIP (0.300", 7.62mm)  Supplier Device Package	Driven Configuration	High-Side
Gate Type  IGBT, N-Channel MOSFET  Voltage - Supply  12 V ~ 36 V  Logic Voltage - VIL, VIH  0.8V, 2V  Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  400ns, 400ns  Operating Temperature  -40°C ~ 85°C (TA)  Mounting Type  Through Hole  Package / Case  8-DIP (0.300", 7.62mm)  Supplier Device Package	Channel Type	Single
Voltage - Supply  Logic Voltage - VIL, VIH  0.8V, 2V  Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  400ns, 400ns  Operating Temperature  -40°C ~ 85°C (TA)  Mounting Type  Through Hole  Package / Case  8-DIP (0.300", 7.62mm)  Supplier Device Package	Number of Drivers	1
Logic Voltage - VIL, VIH  Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  -40°C ~ 85°C (TA)  Mounting Type  Through Hole  Package / Case  8-DIP (0.300", 7.62mm)  Supplier Device Package	Gate Type	IGBT, N-Channel MOSFET
Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  -40°C ~ 85°C (TA)  Mounting Type  Through Hole  Package / Case  8-DIP (0.300", 7.62mm)  Supplier Device Package	Voltage - Supply	12 V ~ 36 V
Input Type  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  -40°C ~ 85°C (TA)  Mounting Type  Through Hole  Package / Case  8-DIP (0.300", 7.62mm)  Supplier Device Package	Logic Voltage - VIL, VIH	0.8V, 2V
High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  400ns, 400ns  Operating Temperature  -40°C ~ 85°C (TA)  Mounting Type  Through Hole  Package / Case  8-DIP (0.300", 7.62mm)  Supplier Device Package	Current - Peak Output (Source, Sink)	-
Rise / Fall Time (Typ) $400ns, 400ns$ Operating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ (TA)  Mounting Type Through Hole  Package / Case 8-DIP $(0.300^{\circ}, 7.62mm)$ Supplier Device Package 8-PDIP	Input Type	Non-Inverting
Operating Temperature  -40°C ~ 85°C (TA)  Mounting Type  Through Hole  Package / Case  8-DIP (0.300", 7.62mm)  Supplier Device Package  8-PDIP	High Side Voltage - Max (Bootstrap)	-
Mounting Type Through Hole Package / Case 8-DIP (0.300", 7.62mm) Supplier Device Package 8-PDIP	Rise / Fall Time (Typ)	400ns, 400ns
Package / Case 8-DIP (0.300", 7.62mm) Supplier Device Package 8-PDIP	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package 8-PDIP	Mounting Type	Through Hole
	Package / Case	8-DIP (0.300", 7.62mm)
Report errors?	Supplier Device Package	8-PDIP
		Report errors?

#### **MIC5021BN 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.

### **MIC5021BN Payment Methods**



















### **MIC5021BN Shipping Methods**













If you have any question about MIC5021BN, please do not hesitate to contact us!

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