



### **HIP4080AIB Information**



For Reference Only

Part Number HIP4080AIB
Manufacturer Intersil

Category Integrated Circuits (ICs)

PMIC - Gate Drivers

DescriptionIC DRIVER FULL-BRIDGE 20-SOICPackage20-SOIC (0.295", 7.50mm Width)

For the pricing/inventory/lead time, please contact

us

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



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# **Certified Quality**

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# **HIP4080AIB Specifications**

Manufacturer Part Number         HIP4080AIB           Manufacturer         Intersil           Category         Integrated Circuits (ICs)           Package         20-SOIC (0.295", 7.50mm Width)           Series         -           Driven Configuration         Half-Bridge           Channel Type         Synchronous           Number of Drivers         4           Gate Type         N-Channel MOSFET           Voltage - Supply         9.5 V ~ 15 V           Logic Voltage - VIL, VIH         IV, 2.5V           Current - Peak Output (Source, Sink)         2.6A, 2.4A           Input Type         Non-Inverting           High Side Voltage - Max (Bootstrap)         95V           Rise / Fall Time (Typ)         10ns, 10ns           Operating Temperature         -40°C ~ 125°C (TJ)           Mounting Type         Surface Mount           Package / Case         20-SOIC (0.295", 7.50mm Width)           Supplier Device Package         20-SOIC		
CategoryIntegrated Circuits (ICs)PMIC - Gate DriversPackage20-SOIC (0.295", 7.50mm Width)Series-Driven ConfigurationHalf-BridgeChannel TypeSynchronousNumber of Drivers4Gate TypeN-Channel MOSFETVoltage - Supply9.5 V ~ 15 VLogic Voltage - VIL, VIHIV, 2.5VCurrent - Peak Output (Source, Sink)2.6A, 2.4AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)95 VRise / Fall Time (Typ)10ns, 10nsOperating Temperature-40°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case20-SOIC (0.295", 7.50mm Width)Supplier Device Package20-SOIC	Manufacturer Part Number	HIP4080AIB
Package 20-SOIC (0.295", 7.50mm Width)  Series - Driven Configuration Half-Bridge Channel Type Synchronous  Number of Drivers 4  Gate Type N-Channel MOSFET  Voltage - Supply 9.5 V ~ 15 V  Logic Voltage - VIL, VIH 1V, 2.5V  Current - Peak Output (Source, Sink) 2.6A, 2.4A  Input Type Non-Inverting  High Side Voltage - Max (Bootstrap) 95V  Rise / Fall Time (Typ) 10ns, 10ns  Operating Temperature -40°C ~ 125°C (TJ)  Mounting Type Surface Mount  Package / Case 20-SOIC (0.295", 7.50mm Width)  Supplier Device Package	Manufacturer	Intersil
Package20-SOIC (0.295", 7.50mm Width)Series-Driven ConfigurationHalf-BridgeChannel TypeSynchronousNumber of Drivers4Gate TypeN-Channel MOSFETVoltage - Supply9.5 V ~ 15 VLogic Voltage - VIL, VIH1V, 2.5VCurrent - Peak Output (Source, Sink)2.6A, 2.4AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)95VRise / Fall Time (Typ)10ns, 10nsOperating Temperature-40°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case20-SOIC (0.295", 7.50mm Width)Supplier Device Package20-SOIC	Category	Integrated Circuits (ICs)
Series-Driven ConfigurationHalf-BridgeChannel TypeSynchronousNumber of Drivers4Gate TypeN-Channel MOSFETVoltage - Supply9.5 V ~ 15 VLogic Voltage - VIL, VIH1V, 2.5VCurrent - Peak Output (Source, Sink)2.6A, 2.4AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)95VRise / Fall Time (Typ)10ns, 10nsOperating Temperature-40°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case20-SOIC (0.295", 7.50mm Width)Supplier Device Package20-SOIC		PMIC - Gate Drivers
Driven Configuration Channel Type Synchronous Number of Drivers 4 Gate Type N-Channel MOSFET Voltage - Supply Logic Voltage - VIL, VIH Logic Voltage - VIL, VIH Current - Peak Output (Source, Sink) Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature  Mounting Type Surface Mount Package / Case 20-SOIC  Half-Bridge Synchronous Augustian  4  Case Synchronous  N-Channel MOSFET  N-Channel MOSFET  V-2.5V  Logic Voltage - VIL, VIH  1V, 2.5V  2.6A, 2.4A  Non-Inverting  10ns, 10ns  40°C ~ 125°C (TJ)  Surface Mount  Package / Case 20-SOIC (0.295", 7.50mm Width)  Supplier Device Package	Package	20-SOIC (0.295", 7.50mm Width)
Channel Type  Number of Drivers  4  Gate Type  N-Channel MOSFET  Voltage - Supply  9.5 V ~ 15 V  Logic Voltage - VIL, VIH  1V, 2.5V  Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  40°C ~ 125°C (TJ)  Mounting Type  Surface Mount  Package / Case  20-SOIC (0.295", 7.50mm Width)  Supplier Device Package	Series	-
Number of Drivers4Gate TypeN-Channel MOSFETVoltage - Supply9.5 V ~ 15 VLogic Voltage - VIL, VIH1V, 2.5VCurrent - Peak Output (Source, Sink)2.6A, 2.4AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)95VRise / Fall Time (Typ)10ns, 10nsOperating Temperature-40°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case20-SOIC (0.295", 7.50mm Width)Supplier Device Package20-SOIC	Driven Configuration	Half-Bridge
Gate TypeN-Channel MOSFETVoltage - Supply9.5 V ~ 15 VLogic Voltage - VIL, VIH1V, 2.5VCurrent - Peak Output (Source, Sink)2.6A, 2.4AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)95 VRise / Fall Time (Typ)10ns, 10nsOperating Temperature-40°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case20-SOIC (0.295", 7.50mm Width)Supplier Device Package20-SOIC	Channel Type	Synchronous
Voltage - Supply9.5 V ~ 15 VLogic Voltage - VIL, VIH1V, 2.5VCurrent - Peak Output (Source, Sink)2.6A, 2.4AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)95VRise / Fall Time (Typ)10ns, 10nsOperating Temperature-40°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case20-SOIC (0.295", 7.50mm Width)Supplier Device Package20-SOIC	Number of Drivers	4
Logic Voltage - VIL, VIH  Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Pair / Fall Time (Typ)  Operating Temperature  -40°C ~ 125°C (TJ)  Mounting Type  Surface Mount  Package / Case  20-SOIC (0.295", 7.50mm Width)  Supplier Device Package	Gate Type	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 ~ 125°C (TJ)  Mounting Type  Surface Mount  Package / Case  20-SOIC (0.295", 7.50mm Width)  Supplier Device Package	Voltage - Supply	9.5 V ~ 15 V
Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  10ns, 10ns  Operating Temperature  -40°C ~ 125°C (TJ)  Mounting Type  Surface Mount  Package / Case  20-SOIC (0.295", 7.50mm Width)  Supplier Device Package	Logic Voltage - VIL, VIH	1V, 2.5V
High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  -40°C ~ 125°C (TJ)  Mounting Type  Surface Mount  Package / Case  20-SOIC (0.295", 7.50mm Width)  Supplier Device Package	Current - Peak Output (Source, Sink)	2.6A, 2.4A
Rise / Fall Time (Typ)  Operating Temperature  -40°C ~ 125°C (TJ)  Mounting Type  Surface Mount  Package / Case  20-SOIC (0.295", 7.50mm Width)  Supplier Device Package	Input Type	Non-Inverting
Operating Temperature  -40°C ~ 125°C (TJ)  Mounting Type  Surface Mount  Package / Case  20-SOIC (0.295", 7.50mm Width)  Supplier Device Package  20-SOIC	High Side Voltage - Max (Bootstrap)	95V
Mounting Type Surface Mount  Package / Case 20-SOIC (0.295", 7.50mm Width)  Supplier Device Package 20-SOIC	Rise / Fall Time (Typ)	10ns, 10ns
Package / Case 20-SOIC (0.295", 7.50mm Width) Supplier Device Package 20-SOIC	Operating Temperature	-40°C ~ 125°C (TJ)
Supplier Device Package 20-SOIC	Mounting Type	Surface Mount
	Package / Case	20-SOIC (0.295", 7.50mm Width)
Report errors?	Supplier Device Package	20-SOIC
		Report errors?

#### **HIP4080AIB 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.



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