



## **IRSM005-800MH Information**



For Reference Only

Part NumberIRSM005-800MHManufacturerInfineon TechnologiesCategoryIntegrated Circuits (ICs)

PMIC - Full, Half-Bridge Drivers

**Description** IC GATE DRIVER 40V QFN

Package 27-PowerVQFN
For the pricing/inventory/lead time, please contact

115

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



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# **IRSM005-800MH Specifications**

Manufacturer Part Number         IRSM005-800MH           Manufacturer         Infineon Technologies           Category         Integrated Circuits (ICs)           PMIC - Full, Half-Bridge Drivers           Package         27-PowerVQFN           Series         IPM?           Output Configuration         Half Bridge           Applications         AC Motors, DC Motors, DC-DC Converters, General Purpose           Interface         Logic           Load Type         Inductive, Capacitive           Technology         Power MOSFET           Rds On (Typ)         2.7 mOhm           Current - Output / Channel         80A           Current - Peak Output         -           Voltage - Supply         10 V ~ 20 V           Voltage - Load         40V (Max)           Operating Temperature         150°C (TJ)           Features         Bootstrap Circuit           Fault Protection         UVLO           Mounting Type         Surface Mount           Package / Case         27-PowerVQFN           Supplier Device Package         27-POFN (7x8)			
CategoryIntegrated Circuits (ICs)PMIC - Full, Half-Bridge DriversPackage27-PowerVQFNSeriesIPM?Output ConfigurationHalf BridgeApplicationsAC Motors, DC Motors, DC-DC Converters, General PurposeInterfaceLogicLoad TypeInductive, CapacitiveTechnologyPower MOSFETRds On (Typ)2.7 mOhmCurrent - Output / Channel80ACurrent - Peak Output-Voltage - Supply10 V ~ 20 VVoltage - Load40V (Max)Operating Temperature150°C (TJ)FeaturesBootstrap CircuitFault ProtectionUVLOMounting TypeSurface MountPackage / Case27-PowerVQFNSupplier Device Package27-PQFN (7x8)	Manufacturer Part Number	IRSM005-800MH	
Package 27-PowerVQFN Series IPM? Output Configuration Half Bridge Applications AC Motors, DC Motors, DC-DC Converters, General Purpose Interface Logic Load Type Inductive, Capacitive Technology Power MOSFET Rds On (Typ) 2.7 mOhm Current - Output / Channel 80A Current - Peak Output Voltage - Supply 10 V ~ 20 V Voltage - Load 40V (Max) Operating Temperature 150°C (TJ) Features Bootstrap Circuit Fault Protection UVLO Mounting Type Surface Mount Package / Case 27-PowerVQFN Supplier Device Package  27-POWER Woltons, DC-DC Converters, General Purpose Interface AC Motors, DC-DC Converters, General Purpose Interface	Manufacturer	Infineon Technologies	
Package         27-PowerVQFN           Series         IPM?           Output Configuration         Half Bridge           Applications         AC Motors, DC Motors, DC-DC Converters, General Purpose           Interface         Logic           Load Type         Inductive, Capacitive           Technology         Power MOSFET           Rds On (Typ)         2.7 mOhm           Current - Output / Channel         80A           Current - Peak Output         -           Voltage - Supply         10 V ~ 20 V           Voltage - Load         40V (Max)           Operating Temperature         150°C (TJ)           Features         Bootstrap Circuit           Fault Protection         UVLO           Mounting Type         Surface Mount           Package / Case         27-PowerVQFN           Supplier Device Package         27-POFN (7x8)	Category	Integrated Circuits (ICs)	
SeriesIPM?Output ConfigurationHalf BridgeApplicationsAC Motors, DC Motors, DC-DC Converters, General PurposeInterfaceLogicLoad TypeInductive, CapacitiveTechnologyPower MOSFETRds On (Typ)2.7 mOhmCurrent - Output / Channel80ACurrent - Peak Output-Voltage - Supply10 V ~ 20 VVoltage - Load40V (Max)Operating Temperature150°C (TJ)FeaturesBootstrap CircuitFault ProtectionUVLOMounting TypeSurface MountPackage / Case27-PowerVQFNSupplier Device Package27-PQFN (7x8)		PMIC - Full, Half-Bridge Drivers	
Output ConfigurationHalf BridgeApplicationsAC Motors, DC Motors, DC-DC Converters, General PurposeInterfaceLogicLoad TypeInductive, CapacitiveTechnologyPower MOSFETRds On (Typ)2.7 mOhmCurrent - Output / Channel80ACurrent - Peak Output-Voltage - Supply10 V ~ 20 VVoltage - Load40V (Max)Operating Temperature150°C (TJ)FeaturesBootstrap CircuitFault ProtectionUVLOMounting TypeSurface MountPackage / Case27-PowerVQFNSupplier Device Package27-PQFN (7x8)	Package	27-PowerVQFN	
Applications AC Motors, DC Motors, DC-DC Converters, General Purpose Interface Logic Load Type Inductive, Capacitive Technology Power MOSFET Rds On (Typ) 2.7 mOhm Current - Output / Channel 80A Current - Peak Output - Voltage - Supply 10 V ~ 20 V Voltage - Load 40V (Max) Operating Temperature 150°C (TJ) Features Bootstrap Circuit Fault Protection UVLO Mounting Type Surface Mount Package / Case 27-Power VQFN Supplier Device Package 27-PQFN (7x8)	Series	IPM?	
Interface Logic Load Type Inductive, Capacitive Technology Power MOSFET Rds On (Typ) 2.7 mOhm Current - Output / Channel 80A Current - Peak Output - Voltage - Supply 10 V ~ 20 V Voltage - Load 40V (Max) Operating Temperature 150°C (TJ) Features Bootstrap Circuit Fault Protection UVLO Mounting Type Surface Mount Package / Case 27-PowerVQFN Supplier Device Package 27-PGFN (7x8)	Output Configuration	Half Bridge	
Load TypeInductive, CapacitiveTechnologyPower MOSFETRds On (Typ)2.7 mOhmCurrent - Output / Channel80ACurrent - Peak Output-Voltage - Supply10 V ~ 20 VVoltage - Load40V (Max)Operating Temperature150°C (TJ)FeaturesBootstrap CircuitFault ProtectionUVLOMounting TypeSurface MountPackage / Case27-PowerVQFNSupplier Device Package27-PQFN (7x8)	Applications	AC Motors, DC Motors, DC-DC Converters, General Purpose	
Technology Power MOSFET  Rds On (Typ) 2.7 mOhm  Current - Output / Channel 80A  Current - Peak Output -  Voltage - Supply 10 V ~ 20 V  Voltage - Load 40V (Max)  Operating Temperature 150°C (TJ)  Features Bootstrap Circuit  Fault Protection UVLO  Mounting Type Surface Mount  Package / Case 27-Power VQFN  Supplier Device Package 27-PQFN (7x8)	Interface	Logic	
Rds On (Typ)  2.7 mOhm  Current - Output / Channel  80A  Current - Peak Output  - Voltage - Supply  10 V ~ 20 V  Voltage - Load  40V (Max)  Operating Temperature  150°C (TJ)  Features  Bootstrap Circuit  Fault Protection  Mounting Type  Surface Mount  Package / Case  27-PowerVQFN  Supplier Device Package  27-PQFN (7x8)	Load Type	Inductive, Capacitive	
Current - Output / Channel 80A  Current - Peak Output -  Voltage - Supply 10 V ~ 20 V  Voltage - Load 40V (Max)  Operating Temperature 150°C (TJ)  Features Bootstrap Circuit  Fault Protection UVLO  Mounting Type Surface Mount  Package / Case 27-Power VQFN  Supplier Device Package 27-PQFN (7x8)	Technology	Power MOSFET	
Current - Peak Output  Voltage - Supply  10 V ~ 20 V  Voltage - Load  40V (Max)  Operating Temperature  150°C (TJ)  Features  Bootstrap Circuit  Fault Protection  UVLO  Mounting Type  Surface Mount  Package / Case  27-PowerVQFN  Supplier Device Package  27-PQFN (7x8)	Rds On (Typ)	2.7 mOhm	
Voltage - Supply  10 V ~ 20 V  Voltage - Load  40V (Max)  Operating Temperature  150°C (TJ)  Features  Bootstrap Circuit  Fullt Protection  UVLO  Mounting Type  Surface Mount  Package / Case  27-PowerVQFN  Supplier Device Package  27-PQFN (7x8)	Current - Output / Channel	80A	
Voltage - Load 40V (Max)  Operating Temperature 150°C (TJ)  Features Bootstrap Circuit  Fault Protection UVLO  Mounting Type Surface Mount  Package / Case 27-PowerVQFN  Supplier Device Package 27-PQFN (7x8)	Current - Peak Output	-	
Operating Temperature 150°C (TJ) Features Bootstrap Circuit Fault Protection UVLO Mounting Type Surface Mount Package / Case 27-PowerVQFN Supplier Device Package 27-PQFN (7x8)	Voltage - Supply	10 V ~ 20 V	
Features Bootstrap Circuit Fault Protection UVLO Mounting Type Surface Mount Package / Case 27-PowerVQFN Supplier Device Package 27-PQFN (7x8)	Voltage - Load	40V (Max)	
Fault Protection UVLO  Mounting Type Surface Mount  Package / Case 27-PowerVQFN  Supplier Device Package 27-PQFN (7x8)	Operating Temperature	150°C (TJ)	
Mounting Type Surface Mount  Package / Case 27-PowerVQFN  Supplier Device Package 27-PQFN (7x8)	Features	Bootstrap Circuit	
Package / Case 27-PowerVQFN Supplier Device Package 27-PQFN (7x8)	Fault Protection	UVLO	
Supplier Device Package 27-PQFN (7x8)	Mounting Type	Surface Mount	
	Package / Case	27-PowerVQFN	
Report errors?	Supplier Device Package	27-PQFN (7x8)	
		Report error	ors?

#### **IRSM005-800MH 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.

## **IRSM005-800MH Payment Methods**



















## **IRSM005-800MH Shipping Methods**













If you have any question about IRSM005-800MH, please do not hesitate to contact us!

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