



# MC33981ABHFK Information

Heisener.com

Part Number MC33981ABHFK

Manufacturer NXP

Category Integrated Circuits (ICs)

PMIC - Power Distribution Switches, Load Drivers

**Description** IC SWITCH HIGH SIDE 16QFN

Package 16-PowerQFN

For the pricing/inventory/lead time, please contact

us

For Reference Only Website: https://www.heisener.com

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# MC33981ABHFK Specifications

Manufacturer         MC33981ABHFK           Manufacturer         NXP           Category         Integrated Circuits (ICs)           PMIC - Power Distribution Switches, Load Drivers           Package         16-PowerQFN           Series         -           Switch Type         General Purpose           Number of Outputs         1           Ratio - Input:Output         1:1           Output Configuration         High Side           Output Type         N-Channel           Interface         PWM           Voltage - Load         6 V ~ 27 V           Voltage - Supply (Vcc/Vdd)         -           Current - Output (Max)         40A           Rds On (Typ)         4 mOhm           Input Type         -           Features         Slew Rate Controlled           Fault Protection         Current Limiting (Fixed), Over Temperature           Operating Temperature         -40°C ~ 150°C (TJ)           Package / Case         16-PowerQFN           Supplier Device Package         16-PQFN (12x12)    Report errors?		A COMPANY AND A COMPANY
Integrated Circuits (ICs)	Manufacturer Part Number	MC33981ABHFK
PMIC - Power Distribution Switches, Load Drivers           Package         16-PowerQFN           Series         -           Switch Type         General Purpose           Number of Outputs         1           Ratio - Input:Output         1:1           Output Configuration         High Side           Output Type         N-Channel           Interface         PWM           Voltage - Load         6 V ~ 27 V           Voltage - Supply (Vcc/Vdd)         -           Current - Output (Max)         40A           Rds On (Typ)         4 mOhm           Input Type         -           Features         Slew Rate Controlled           Fault Protection         Current Limiting (Fixed), Over Temperature           Operating Temperature         -40°C ~ 150°C (TJ)           Package / Case         16-PowerQFN           Supplier Device Package         16-POFN (12x12)	Manufacturer	NXP
Package         16-PowerQFN           Series         -           Switch Type         General Purpose           Number of Outputs         1           Ratio - Input:Output         1:1           Output Configuration         High Side           Output Type         N-Channel           Interface         PWM           Voltage - Load         6 V ~ 27 V           Voltage - Supply (Vcc/Vdd)         -           Current - Output (Max)         40A           Rds On (Typ)         4 mOhm           Input Type         -           Features         Slew Rate Controlled           Fault Protection         Current Limiting (Fixed), Over Temperature           Operating Temperature         -40°C ~ 150°C (TJ)           Package / Case         16-PowerQFN           Supplier Device Package         16-PQFN (12x12)	Category	Integrated Circuits (ICs)
Series         -           Switch Type         General Purpose           Number of Outputs         1           Ratio - Input:Output         1:1           Output Configuration         High Side           Output Type         N-Channel           Interface         PWM           Voltage - Load         6 V ~ 27 V           Voltage - Supply (Vcc/Vdd)         -           Current - Output (Max)         40A           Rds On (Typ)         4 mOhm           Input Type         -           Features         Slew Rate Controlled           Fault Protection         Current Limiting (Fixed), Over Temperature           Operating Temperature         -40°C ~ 150°C (TJ)           Package / Case         16-PowerQFN           Supplier Device Package         16-PQFN (12x12)		PMIC - Power Distribution Switches, Load Drivers
Switch TypeGeneral PurposeNumber of Outputs1Ratio - Input:Output1:1Output ConfigurationHigh SideOutput TypeN-ChannelInterfacePWMVoltage - Load6 V ~ 27 VVoltage - Supply (Vcc/Vdd)-Current - Output (Max)40ARds On (Typ)4 mOhmInput Type-FeaturesSlew Rate ControlledFault ProtectionCurrent Limiting (Fixed), Over TemperatureOperating Temperature-40°C ~ 150°C (TJ)Package / Case16-PowerQFNSupplier Device Package16-PQFN (12x12)	Package	16-PowerQFN
Number of Outputs  Ratio - Input:Output  1:1  Output Configuration  High Side  Output Type  N-Channel  Interface  PWM  Voltage - Load  6 V ~ 27 V  Voltage - Supply (Vcc/Vdd)	Series	-
Ratio - Input:Output  Output Configuration  High Side  Output Type  N-Channel  Interface  PWM  Voltage - Load  6 V ~ 27 V  Voltage - Supply (Vcc/Vdd)  - Current - Output (Max)  Rds On (Typ)  4 mOhm  Input Type  - Features  Slew Rate Controlled  Fault Protection  Current Limiting (Fixed), Over Temperature  Operating Temperature  -40°C ~ 150°C (TJ)  Package / Case  16-PowerQFN  Supplier Device Package  1:1  High Side  N-Channel  High Side  N-Channel  Aba  A WA  A WA  A WA  A WO  Current Limiting (Fixed), Over Temperature  -40°C ~ 150°C (TJ)  Package / Case  16-PowerQFN  Supplier Device Package	Switch Type	General Purpose
Output Configuration  Output Type  N-Channel  Interface  PWM  Voltage - Load  6 V ~ 27 V  Voltage - Supply (Vcc/Vdd)	Number of Outputs	1
Output Type N-Channel Interface PWM  Voltage - Load 6 V ~ 27 V  Voltage - Supply (Vcc/Vdd) - Current - Output (Max) 40A  Rds On (Typ) 4 mOhm Input Type - Features Slew Rate Controlled Fault Protection Current Limiting (Fixed), Over Temperature  Operating Temperature -40°C ~ 150°C (TJ)  Package / Case 16-PowerQFN  Supplier Device Package 16-PQFN (12x12)	Ratio - Input:Output	1:1
Interface PWM  Voltage - Load 6 V ~ 27 V  Voltage - Supply (Vcc/Vdd) -  Current - Output (Max) 40A  Rds On (Typ) 4 mOhm  Input Type -  Features Slew Rate Controlled  Fault Protection Current Limiting (Fixed), Over Temperature  Operating Temperature -40°C ~ 150°C (TJ)  Package / Case 16-PowerQFN  Supplier Device Package 16-PQFN (12x12)	Output Configuration	High Side
Voltage - Load 6 V ~ 27 V  Voltage - Supply (Vcc/Vdd) -  Current - Output (Max) 40A  Rds On (Typ) 4 mOhm  Input Type -  Features Slew Rate Controlled  Fault Protection Current Limiting (Fixed), Over Temperature  Operating Temperature -40°C ~ 150°C (TJ)  Package / Case 16-PowerQFN  Supplier Device Package 16-PQFN (12x12)	Output Type	N-Channel
Voltage - Supply (Vcc/Vdd)  Current - Output (Max)  AdA  Rds On (Typ)  4 mOhm  Input Type  - Features  Slew Rate Controlled  Fault Protection  Current Limiting (Fixed), Over Temperature  Operating Temperature  -40°C ~ 150°C (TJ)  Package / Case  16-POWERQFN  Supplier Device Package  16-PQFN (12x12)	Interface	PWM
Current - Output (Max)  Rds On (Typ)  4 mOhm  Input Type  - Features  Slew Rate Controlled  Fault Protection  Current Limiting (Fixed), Over Temperature  Operating Temperature  -40°C ~ 150°C (TJ)  Package / Case  16-POWER OFN  Supplier Device Package  16-PQFN (12x12)	Voltage - Load	6 V ~ 27 V
Rds On (Typ)4 mOhmInput Type-FeaturesSlew Rate ControlledFault ProtectionCurrent Limiting (Fixed), Over TemperatureOperating Temperature-40°C ~ 150°C (TJ)Package / Case16-PowerQFNSupplier Device Package16-PQFN (12x12)	Voltage - Supply (Vcc/Vdd)	-
Input Type - Features Slew Rate Controlled Fault Protection Current Limiting (Fixed), Over Temperature Operating Temperature -40°C ~ 150°C (TJ) Package / Case 16-PowerQFN Supplier Device Package 16-PQFN (12x12)	Current - Output (Max)	40A
Features Slew Rate Controlled  Fault Protection Current Limiting (Fixed), Over Temperature  Operating Temperature -40°C ~ 150°C (TJ)  Package / Case 16-PowerQFN  Supplier Device Package 16-PQFN (12x12)	Rds On (Typ)	4 mOhm
Fault Protection Current Limiting (Fixed), Over Temperature  Operating Temperature $-40^{\circ}\text{C} \sim 150^{\circ}\text{C}$ (TJ)  Package / Case $16\text{-PowerQFN}$ Supplier Device Package $16\text{-PQFN}$ (12x12)	Input Type	-
Operating Temperature -40°C ~ 150°C (TJ)  Package / Case 16-PowerQFN  Supplier Device Package 16-PQFN (12x12)	Features	Slew Rate Controlled
Package / Case 16-PowerQFN Supplier Device Package 16-PQFN (12x12)	Fault Protection	Current Limiting (Fixed), Over Temperature
Supplier Device Package 16-PQFN (12x12)	Operating Temperature	-40°C ~ 150°C (TJ)
	Package / Case	16-PowerQFN
Report errors?	Supplier Device Package	16-PQFN (12x12)
		Report errors?

### MC33981ABHFK 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.

# MC33981ABHFK Payment Methods



















# MC33981ABHFK Shipping Methods













If you have any question about MC33981ABHFK, please do not hesitate to contact us!

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