

# RT9742FGJ5F

Request a Quote

## **RT9742FGJ5F Information**

www.heiseaer.com	Part Number	RT9742FGJ5F
	Manufacturer	Richtek USA Inc.
	Category	Integrated Circuits (ICs) PMIC - Power Distribution Switches, Load Drivers
	Description	IC USB POWER SWITCH TSOT23-5
	Package	SOT-23-5 Thin, TSOT-23-5
B		For the pricing/inventory/lead time, please contact
For Reference Only		us
		Website: https://www.heisener.com
,		E-mail: salesdept@heisener.com



Heisener's commitment to quality has shaped our processes for sourcing, testing, shipping, and every step in between. This foundation underlies each component we sell.



## **RT9742FGJ5F Specifications**

ManufacturerRichtek USA Inc.CategoryIntegrated Circuits (ICs)PMIC - Power Distribution Switches, Load DriversPackageSOT-23-5 Thin, TSOT-23-5Series-Switch TypeUSB SwitchNumber of Outputs1Ratio - Input:Output1:1Output ConfigurationHigh SideOutput TypeN-ChannelVoltage - Load2.7 V ~ 6 VVoltage - Supply (Vcc/Vd)Not RequiredNorder Output (Max)1.5ARds On (Typ)So mOhmInput TypeNon-InvertingFeaturesLoad Discharge, Status FlagFault ProtectionCurrent Limiting (Fixed), Over Temperature, Reverse Current, UVLOOperating Temperature40°C ~ 85°C (TA)Package / CaseSOT-23-5 Thin, TSOT-23-5	•			
CategoryIntegrated Circuits (ICs)PMIC - Power Distribution Switches, Load DriversPackageSOT-23-5 Thin, TSOT-23-5Series-Switch TypeUSB SwitchNumber of OutputsIRatio - Input:Output1:1Output ConfigurationHigh SideOutput TypeN-ChannelInterfaceOn/OffVoltage - Load2.7 V ~ 6 VVoltage - Supply (Vcc/Vdd)Not RequiredRds On (Typ)55 mOhmInput TypeNon-InvertingIput TypeKon-InvertingFeaturesLoad Discharge, Status FlagFault Protection-Current Limiting (Fixed), Over Temperature, Reverse Current, UVLOOperating Temperature-40°C ~ 85°C (TA)Package / CaseSOT-23-5Supplier Device PackageSOT-23-5	Manufacturer Part Number	RT9742FGJ5F		
PMIC - Power Distribution Switches, Load DriversPackageSOT-23-5 Thin, TSOT-23-5Series-Switch TypeUSB SwitchNumber of Outputs1Ratio - Input:Output1:1Output ConfigurationHigh SideOutput TypeN-ChannelInterfaceOn/OffVoltage - Load2.7 V ~ 6 VVoltage - Supply (Vcc/Vdd)Not RequiredCurrent - Output (Max)1.5ARds On (Typ)S5 mOhmInput TypeNon-InvertingFeaturesLoad Discharge, Status FlagFault ProtectionCurrent Limiting (Fixed), Over Temperature, Reverse Current, UVLOOperating Temperature40°C ~ 85°C (TA)Package / CaseSOT-23-5 Thin, TSOT-23-5Supplier Device PackageSOT-23-5	Manufacturer	Richtek USA Inc.		
PackageSOT-23-5 Thin, TSOT-23-5Series-Switch TypeUSB SwitchNumber of Outputs1Ratio - Input:Output1:1Output ConfigurationHigh SideOutput TypeN-ChannelInterfaceOn/OffVoltage - Load2.7 V ~ 6 VVoltage - Supply (Vcc/Vdd)Not RequiredCurrent - Output (Max)1.5ARaton (Typ)55 mOhmInput TypeNon-InvertingFeaturesLoad Discharge, Status FlagFault ProtectionCurrent Limiting (Fixed), Over Temperature, Reverse Current, UVLOOperating TemperatureSOT-23-5 Thin, TSOT-23-5Supplier Device PackageSOT-23-5	Category	Integrated Circuits (ICs)		
Series-Switch TypeUSB SwitchNumber of Outputs1Ratio - Input:Output1:1Output ConfigurationHigh SideOutput TypeN-ChannelInterfaceOn/OffVoltage - Load2.7 V ~ 6 VVoltage - Supply (Vcc/Vdd)Not RequiredCurrent - Output (Max)1.5ARds On (Typ)55 mOhmInput TypeNon-InvertingFeaturesLoad Discharge, Status FlagFault ProtectionCurrent Limiting (Fixed), Over Temperature, Reverse Current, UVLOOperating Temperature40°C ~ 85°C (TA)Package / CaseSOT-23-5 Thin, TSOT-23-5Supplier Device PackageSOT-23-5		PMIC - Power Distribution Switches, Load Drivers		
Switch TypeUSB SwitchSwitch TypeINumber of OutputsIRatio - Input:Output1:1Output ConfigurationHigh SideOutput TypeN-ChannelOutput TypeOn/OffVoltage - Load2.7 V ~ 6 VVoltage - Supply (Vcc/Vdd)Not RequiredCurrent - Output (Max)1.5ARds On (Typ)S5 mOhmInput TypeNon-InvertingFeaturesLoad Discharge, Status FlagFault ProtectionCurrent Limiting (Fixed), Over Temperature, Reverse Current, UVLOOperating Temperature-40°C ~ 85°C (TA)Package / CaseSOT-23-5 Thin, TSOT-23-5Supplier Device PackageSOT-23-5	Package	SOT-23-5 Thin, TSOT-23-5		
Number of Outputs 1   Ratio - Input:Output 1:1   Output Configuration High Side   Output Type N-Channel   Output Type On/Off   Interface On/Off   Voltage - Load 2.7 V ~ 6 V   Voltage - Supply (Vcc/Vdd) Not Required   Rds On (Typ) 1.5A   Rds On (Typ) 55 mOhm   Input Type Non-Inverting   Features Load Discharge, Status Flag   Fault Protection Current Limiting (Fixed), Over Temperature, Reverse Current, UVLO   Operating Temperature 40°C ~ 85°C (TA)   Package / Case SOT-23-5 Thin, TSOT-23-5   Supplier Device Package SOT-23-5	Series	-		
Ratio - Input:Output1:1Output ConfigurationHigh SideOutput TypeN-ChannelOutput TypeOn/OffVoltage - Load2.7 V ~ 6 VVoltage - Supply (Vcc/Vdd)Not RequiredCurrent - Output (Max)1.5ARds On (Typ)55 mOhmInput TypeNon-InvertingFeaturesLoad Discharge, Status FlagFault ProtectionCurrent Limiting (Fixed), Over Temperature, Reverse Current, UVLOOperating TemperatureSOT-23-5 Thin, TSOT-23-5Supplier Device PackageSOT-23-5	Switch Type	USB Switch		
Output ConfigurationHigh SideOutput TypeN-ChannelInterfaceOn/OffVoltage - Load2.7 V ~ 6 VVoltage - Supply (Vcc/Vdd)Not RequiredCurrent - Output (Max)1.5ARds On (Typ)55 mOhmInput TypeNon-InvertingFeaturesLoad Discharge, Status FlagFault ProtectionCurrent Limiting (Fixed), Over Temperature, Reverse Current, UVLOOperating Temperature40°C ~ 85°C (TA)Package / CaseSOT-23-5 Thin, TSOT-23-5Supplier Device PackageSOT-23-5	Number of Outputs	1		
Output TypeN-ChannelInterfaceOn/OffVoltage - Load2.7 V ~ 6 VVoltage - Supply (Vcc/Vdd)Not RequiredCurrent - Output (Max)1.5ARds On (Typ)55 mOhmInput TypeNon-InvertingFeaturesLoad Discharge, Status FlagFault ProtectionCurrent Limiting (Fixed), Over Temperature, Reverse Current, UVLOOperating Temperature-40°C ~ 85°C (TA)Package / CaseSOT-23-5 Thin, TSOT-23-5Supplier Device PackageSOT-23-5	Ratio - Input:Output	1:1		
InterfaceOn/OffVoltage - Load2.7 V ~ 6 VVoltage - Supply (Vcc/Vd)Not RequiredCurrent - Output (Max)1.5ARds On (Typ)55 mOhmInput TypeNon-InvertingFeaturesLoad Discharge, Status FlagFault ProtectionCurrent Limiting (Fixed), Over Temperature, Reverse Current, UVLOOperating Temperature-40°C ~ 85°C (TA)Package / CaseSOT-23-5 Thin, TSOT-23-5Supplier Device PackageSOT-23-5	Output Configuration	High Side		
Voltage - Load2.7 V ~ 6 VVoltage - Supply (Vcc/Vd)Not RequiredCurrent - Output (Max)1.5ARds On (Typ)55 mOhmInput TypeNon-InvertingFeaturesLoad Discharge, Status FlagFault ProtectionCurrent Limiting (Fixed), Over Temperature, Reverse Current, UVLOOperating Temperature>40°C ~ 85°C (TA)Package / CaseSOT-23-5 Thin, TSOT-23-5Supplier Device PackageSOT-23-5	Output Type	N-Channel		
Voltage - Supply (Vcc/Vdd)Not RequiredCurrent - Output (Max)1.5ARds On (Typ)55 mOhmInput TypeNon-InvertingFeaturesLoad Discharge, Status FlagFault ProtectionCurrent Limiting (Fixed), Over Temperature, Reverse Current, UVLOOperating Temperature-40°C ~ 85°C (TA)Package / CaseSOT-23-5 Thin, TSOT-23-5Supplier Device PackageSOT-23-5	Interface	On/Off		
Current - Output (Max)1.5ARds On (Typ)55 mOhmInput TypeNon-InvertingFeaturesLoad Discharge, Status FlagFault ProtectionCurrent Limiting (Fixed), Over Temperature, Reverse Current, UVLOOperating Temperature-40°C ~ 85°C (TA)Package / CaseSOT-23-5 Thin, TSOT-23-5Supplier Device PackageSOT-23-5	Voltage - Load	2.7 V ~ 6 V		
Rds On (Typ)55 mOhmInput TypeNon-InvertingFeaturesLoad Discharge, Status FlagFault ProtectionCurrent Limiting (Fixed), Over Temperature, Reverse Current, UVLOOperating Temperature-40°C ~ 85°C (TA)Package / CaseSOT-23-5 Thin, TSOT-23-5Supplier Device PackageSOT-23-5	Voltage - Supply (Vcc/Vdd)	Not Required		
Input TypeNon-InvertingInput TypeNon-InvertingFeaturesLoad Discharge, Status FlagFault ProtectionCurrent Limiting (Fixed), Over Temperature, Reverse Current, UVLOOperating Temperature-40°C ~ 85°C (TA)Package / CaseSOT-23-5 Thin, TSOT-23-5Supplier Device PackageSOT-23-5	Current - Output (Max)	1.5A		
FeaturesLoad Discharge, Status FlagFault ProtectionCurrent Limiting (Fixed), Over Temperature, Reverse Current, UVLOOperating Temperature-40°C ~ 85°C (TA)Package / CaseSOT-23-5 Thin, TSOT-23-5Supplier Device PackageSOT-23-5	Rds On (Typ)	55 mOhm		
Fault ProtectionCurrent Limiting (Fixed), Over Temperature, Reverse Current, UVLOOperating Temperature-40°C ~ 85°C (TA)Package / CaseSOT-23-5 Thin, TSOT-23-5Supplier Device PackageSOT-23-5	Input Type	Non-Inverting		
Operating Temperature-40°C ~ 85°C (TA)Package / CaseSOT-23-5 Thin, TSOT-23-5Supplier Device PackageSOT-23-5	Features	Load Discharge, Status Flag		
Package / CaseSOT-23-5 Thin, TSOT-23-5Supplier Device PackageSOT-23-5	Fault Protection	Current Limiting (Fixed), Over Temperature, Reverse Current, UVLO		
Supplier Device Package SOT-23-5	Operating Temperature	-40°C ~ 85°C (TA)		
	Package / Case	SOT-23-5 Thin, TSOT-23-5		
Report errors?	Supplier Device Package	SOT-23-5		
			Report errors?	

### **RT9742FGJ5F** 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.

## **RT9742FGJ5F Payment Methods**





If you have any question about RT9742FGJ5F, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com