



VN5012SAK-E Information



For Reference Only

Part Number VN5012SAK-E
Manufacturer STMicroelectronics
Category Integrated Circuits (ICs)

PMIC - Power Distribution Switches, Load Drivers

DescriptionIC DVR SGL HI SIDE POWERSSO24**Package**PowerSSO-24? Exposed Bottom Pad

For the pricing/inventory/lead time, please contact

us

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VN5012SAK-E Specifications

Manufacturer Part Number VN5012SAK-E Manufacturer STMicroelectronics Category Integrated Circuits (ICs) PMIC - Power Distribution Switches, Load Drivers Package PowerSSO-24? Exposed Bottom Pad Series VIPower? Switch Type General Purpose Number of Outputs 1 Ratio - Input:Output 1:1 Output Configuration High Side Output Type N-Channel Interface On/Off Voltage - Load 4.5 V ~ 36 V Voltage - Supply (Vcc/Vdd) Not Required Current - Output (Max) 45A Rds On (Typ) 12 mOhm (Max) Input Type Non-Inverting Features Auto Restart Fault Protection Current Limiting (Fixed), Over Temperature, Over Voltage Operating Temperature -40°C ~ 150°C (TI) Package / Case PowerSSO-24? Exposed Bottom Pad Supplier Device Package PowerSSO-24	-	
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Output TypeN-ChannelInterfaceOn/OffVoltage - Load4.5 V ~ 36 VVoltage - Supply (Vcc/Vdd)Not RequiredCurrent - Output (Max)45ARds On (Typ)12 mOhm (Max)Input TypeNon-InvertingFeaturesAuto RestartFault ProtectionCurrent Limiting (Fixed), Over Temperature, Over VoltageOperating Temperature-40°C ~ 150°C (TJ)Package / CasePowerSSO-24? Exposed Bottom PadSupplier Device PackagePowerSSO-24	Ratio - Input:Output	1:1
Interface On/Off Voltage - Load 4.5 V ~ 36 V Voltage - Supply (Vcc/Vdd) Not Required Current - Output (Max) 45A Rds On (Typ) 12 mOhm (Max) Input Type Non-Inverting Features Auto Restart Fault Protection Current Limiting (Fixed), Over Temperature, Over Voltage Operating Temperature -40°C ~ 150°C (TJ) Package / Case PowerSSO-24? Exposed Bottom Pad Supplier Device Package	Output Configuration	High Side
Voltage - Load 4.5 V ~ 36 V Voltage - Supply (Vcc/Vdd) Not Required Current - Output (Max) 45A Rds On (Typ) 12 mOhm (Max) Input Type Non-Inverting Features Auto Restart Fault Protection Current Limiting (Fixed), Over Temperature, Over Voltage Operating Temperature -40°C ~ 150°C (TJ) Package / Case PowerSSO-24? Exposed Bottom Pad Supplier Device Package PowerSSO-24	Output Type	N-Channel
Voltage - Supply (Vcc/Vdd) Current - Output (Max) 45A Rds On (Typ) 12 mOhm (Max) Input Type Non-Inverting Features Auto Restart Fault Protection Current Limiting (Fixed), Over Temperature, Over Voltage Operating Temperature -40°C ~ 150°C (TJ) Package / Case PowerSSO-24? Exposed Bottom Pad Supplier Device Package PowerSSO-24	Interface	On/Off
Current - Output (Max) Rds On (Typ) 12 mOhm (Max) Input Type Non-Inverting Features Auto Restart Fault Protection Current Limiting (Fixed), Over Temperature, Over Voltage Operating Temperature -40°C ~ 150°C (TJ) Package / Case PowerSSO-24? Exposed Bottom Pad Supplier Device Package PowerSSO-24	Voltage - Load	4.5 V ~ 36 V
Rds On (Typ)12 mOhm (Max)Input TypeNon-InvertingFeaturesAuto RestartFault ProtectionCurrent Limiting (Fixed), Over Temperature, Over VoltageOperating Temperature-40°C ~ 150°C (TJ)Package / CasePowerSSO-24? Exposed Bottom PadSupplier Device PackagePowerSSO-24	Voltage - Supply (Vcc/Vdd)	Not Required
Input Type Non-Inverting Features Auto Restart Fault Protection Current Limiting (Fixed), Over Temperature, Over Voltage Operating Temperature -40°C ~ 150°C (TJ) Package / Case PowerSSO-24? Exposed Bottom Pad Supplier Device Package PowerSSO-24	Current - Output (Max)	45A
Features Auto Restart Fault Protection Current Limiting (Fixed), Over Temperature, Over Voltage Operating Temperature -40°C ~ 150°C (TJ) Package / Case PowerSSO-24? Exposed Bottom Pad Supplier Device Package PowerSSO-24	Rds On (Typ)	12 mOhm (Max)
Fault Protection Current Limiting (Fixed), Over Temperature, Over Voltage -40°C ~ 150°C (TJ) Package / Case PowerSSO-24? Exposed Bottom Pad Supplier Device Package PowerSSO-24	Input Type	Non-Inverting
Operating Temperature -40°C ~ 150°C (TJ) Package / Case PowerSSO-24? Exposed Bottom Pad Supplier Device Package PowerSSO-24	Features	Auto Restart
Package / Case PowerSSO-24? Exposed Bottom Pad Supplier Device Package PowerSSO-24	Fault Protection	Current Limiting (Fixed), Over Temperature, Over Voltage
Supplier Device Package PowerSSO-24	Operating Temperature	$-40^{\circ}\text{C} \sim 150^{\circ}\text{C} \text{ (TJ)}$
	Package / Case	PowerSSO-24? Exposed Bottom Pad
Report errors?	Supplier Device Package	PowerSSO-24
•		Report errors?

VN5012SAK-E 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.

VN5012SAK-E Payment Methods



















VN5012SAK-E Shipping Methods













If you have any question about VN5012SAK-E, please do not hesitate to contact us!

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