

# VN7E010AJTR

est a Quote

## **VN7E010AJTR Information**

Part Number	VN7E010AJTR
Manufacturer	STMicroelectronics
Category	Integrated Circuits (ICs) PMIC - Power Distribution Switches, Load Drivers
Description	HIGH-SIDE DRIVER WITH MULTISENSE
Package	16-PowerLFSOP (0.154", 3.90mm Width)
	For the pricing/inventory/lead time, please contact
	us Website: https://www.heisener.com E-mail: salesdept@heisener.com
	Manufacturer Category Description

# **Certified Quality**

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.



### **VN7E010AJTR Specifications**

Manufacturer STMicroelectronics   Category Integrated Circuits (ICs)   PMIC - Power Distribution Switches, Load Drivers   Package 16-Power Distribution Switches, Load Drivers   Series Automotive, AEC-Q100, VIPOWER <sup>TM</sup> Switch Type General Purpose   Number of Outputs 1   Ratio - Input:Output 1:1   Output Configuration High Side   Output Type N-Channel   Interface -   Voltage - Load 4V ~ 28V   Voltage - Supply (Vcc Voldg) -   Ads On (Typ) 10.5mOhm   Input Type Non-Inverting   Features Auto Restart, Status Flag   Full Protection -   Operating Temperature -40°C ~ 150°C (TJ)   Package / Case 16-PowerLFSOP (0.154", 3.90mm Width)			
CategoryIntegrated Circuits (ICs)PMIC - Power Distribution Switches, Load DriversPackage16-Power LFSOP (0.154", 3.90mm Width)SeriesAutomotive, AEC-Q100, VIPOWER™Switch TypeGeneral PurposeNumber of Outputs1Ratio - Input:Output1:1Output ConfigurationHigh SideOutput TypeN-ChannelInterface-Voltage - Load4V ~ 28VVoltage - Supply (Vcc)5AOutput Type10.5mOhmInput Type10.5mOhmInput Type10.5mOhmFeaturesAuto Restart, Status FlagFurther Corting40° C ~ 150°C (TJ)Package / Case6-PowerLFSOP (0.154", 3.90mm Width)Supplier Device PackageFowerSSO-16	Manufacturer Part Number	VN7E010AJTR	
PMIC - Power Distribution Switches, Load DriversPackage16-PowerLFSOP (0.154", 3.90mm Width)SeriesAutomotive, AEC-Q100, VIPOWER <sup>TM</sup> Switch TypeGeneral PurposeNumber of Outputs1Ratio - Input:Output1:1Output ConfigurationHigh SideOutput TypeN-ChannelInterface-Voltage - Load4V ~ 28VVoltage - Supply (Vcc Vdd)-Current - Output (Max)35ARds On (Typ)10.5mOhmInput TypeNon-InvertingFeaturesAuto Restart, Status FlagFault ProtectionCurrent Limiting (Fixed), Open Load Detect, Over Temperature, Over Voltage, Short Circuit, UVLOOperating Temperature-40°C ~ 150°C (TJ)Package / Case16-PowerLFSOP (0.154", 3.90mm Width)Supplier Device PackageFowerSSO-16	Manufacturer	STMicroelectronics	
Package16-PowerLFSOP (0.154", 3.90mm Width)SeriesAutomotive, AEC-Q100, VIPOWERTMSwitch TypeGeneral PurposeNumber of Outputs1Ratio - Input:Output1:1Output ConfigurationHigh SideOutput TypeN-ChannelInterface-Voltage - Load4V ~ 28VVoltage - Supply (Vcc)35ACurrent - Output Max)35ARaton TypeNon-InvertingInput TypeNon-InvertingFeaturesAuto Restart, Status FlagFourger Lead-Qurent Limiting (Fixed), Open Load Detect, Over Temperature, Over Voltage, Short Circuit, UVLOOperating Temperature-40°C ~ 150°C (TJ)Package / Case16-PowerLFSOP (0.154", 3.90mm Width)Supplier Device PackagePowerSSO-16	Category	Integrated Circuits (ICs)	
SeriesAutomotive, AEC-Q100, VIPOWERTMSwitch TypeGeneral PurposeNumber of Outputs1Ratio - Input:Output1:1Output ConfigurationHigh SideOutput TypeN-ChannelInterface-Voltage - Load4V ~ 28VVoltage - Supply (Vcc Vdd)-Output Type0.5ARds On (Typ)10.5mOhmInput TypeNon-InvertingFeaturesAuto Restart, Status FlagFault Protection-urrent Limiting (Fixed), Open Load Detect, Over Temperature, Over Voltage, Short Circuit, UVLOOperating Temperature-40°C ~ 150°C (TJ)Package / CaseFowerSLFSOP (0.154", 3.90mm Width)Supplier Device PackageFowerSSO-16		PMIC - Power Distribution Switches, Load Drivers	
Switch TypeGeneral PurposeNumber of Outputs1Ratio - Input:Output1:1Output ConfigurationHigh SideOutput TypeN-ChannelInterface-Voltage - Load4V ~ 28VVoltage - Supply (Vcc Vdd)-Output Type0.5mOhmRds On (Typ)10.5mOhmInput TypeNon-InvertingFeaturesAuto Restart, Status FlagFault Protection-Current Limiting (Fixed), Open Load Detect, Over Temperature, Over Voltage, Short Circuit, UVLOOperating Temperature40°C ~ 150°C (TJ)Package / Case16-PowerLFSOP (0.154", 3.90mm Width)Supplier Device PackagePowerSSO-16	Package	16-PowerLFSOP (0.154", 3.90mm Width)	
Number of Outputs1Ratio - Input:Output1:1Output ConfigurationHigh SideOutput TypeN-ChannelInterface-Voltage - Load4V ~ 28VVoltage - Supply (Vcc /Vdd)-Current - Output (Max)35ARds On (Typ)10.5mOhmInput TypeNon-InvertingFeaturesAuto Restart, Status FlagFault ProtectionCurrent Limiting (Fixed), Open Load Detect, Over Temperature, Over Voltage, Short Circuit, UVLOOperating Temperature-40°C ~ 150°C (TJ)Package / Case16-PowerLFSOP (0.154", 3.90mm Width)Supplier Device PackagePowerSSO-16	Series	Automotive, AEC-Q100, VIPOWER <sup>TM</sup>	
Ratio - Input.Output1:1Output ConfigurationHigh SideOutput TypeN-ChannelInterface-Voltage - Load4V ~ 28VVoltage - Supply (Vcc (Vdd)-Output Type35ARds On (Typ)10.5mOhmInput TypeNon-InvertingInput TypeAuto Restart, Status FlagFeatures-Auto Restart, Status FlagOperating Temperature-40°C ~ 150°C (TJ)Package / Case16-PowerLFSOP (0.154", 3.90mm Width)Supplier Device PackagePowerSSO-16	Switch Type	General Purpose	
Output ConfigurationHigh SideOutput TypeN-ChannelInterface-Voltage Load4V ~ 28VVoltage Supply (Vcc Vdd)-Output Maxo55ACurrent - Output (Maxo)55AInterface10.5mOhmInput TypeNon-InvertingFeaturesAuto Restart, Status FlagPackage / Case-40°C ~ 150°C (TJ)Package / CaseFeowerLFSOP (0.154", 3.90mm Width)Supplier Device PackagePowerSSO-16	Number of Outputs	1	
Output TypeN-ChannelOutput Type-Interface-Voltage - Load4V ~ 28VVoltage - Supply (Vcc (Vdd)-Current - Output (Max)35ARds On (Typ)10.5mOhmInput TypeNon-InvertingFeaturesAuto Restart, Status FlagFault ProtectionCurrent Limiting (Fixed), Open Load Detect, Over Temperature, Over Voltage, Short Circuit, UVLOOperating Temperature-40°C ~ 150°C (TJ)Package / Case16-PowerLFSOP (0.154", 3.90mm Width)Supplier Device PackagePowerSSO-16	Ratio - Input:Output	1:1	
Interface-Interface-Voltage - Load4V ~ 28VVoltage - Supply (Vcc (Vdd)-Current - Output (Max)35ARds On (Typ)10.5mOhmInput TypeNon-InvertingFeaturesAuto Restart, Status FlagFault ProtectionCurrent Limiting (Fixed), Open Load Detect, Over Temperature, Over Voltage, Short Circuit, UVLOOperating Temperature-40°C ~ 150°C (TJ)Package / Case16-PowerLFSOP (0.154", 3.90mm Width)Supplier Device PackagePowerSSO-16	Output Configuration	High Side	
Voltage - Load4V ~ 28VVoltage - Supply (Vcc (Vdd)-Current - Output (Max)35ARds On (Typ)10.5mOhmInput TypeNon-InvertingFeaturesAuto Restart, Status FlagFault Protection-Operating Temperature-40°C ~ 150°C (TJ)Package / Case16-PowerLFSOP (0.154", 3.90mm Width)Supplier Device PackagePowerSSO-16	Output Type	N-Channel	
Voltage - Supply (Vcc (Vdd)-Current - Output (Max)35ARds On (Typ)10.5mOhmInput TypeNon-InvertingFeaturesAuto Restart, Status FlagFault ProtectionCurrent Limiting (Fixed), Open Load Detect, Over Temperature, Over Voltage, Short Circuit, UVLOOperating Temperature-40°C ~ 150°C (TJ)Package / Case16-PowerLFSOP (0.154", 3.90mm Width)Supplier Device PackagePowerSSO-16	Interface	-	
/Vdd)-Current - Output (Max)35ARds On (Typ)10.5mOhmInput TypeNon-InvertingFeaturesAuto Restart, Status FlagFault ProtectionCurrent Limiting (Fixed), Open Load Detect, Over Temperature, Over Voltage, Short Circuit, UVLOOperating Temperature-40°C ~ 150°C (TJ)Package / Case16-PowerLFSOP (0.154", 3.90mm Width)Supplier Device PackagePowerSSO-16	Voltage - Load	$4V \sim 28V$	
Rds On (Typ)10.5mOhmInput TypeNon-InvertingFeaturesAuto Restart, Status FlagFault ProtectionCurrent Limiting (Fixed), Open Load Detect, Over Temperature, Over Voltage, Short Circuit, UVLOOperating Temperature-40°C ~ 150°C (TJ)Package / Case16-PowerLFSOP (0.154", 3.90mm Width)Supplier Device PackagePowerSSO-16	Voltage - Supply (Vcc /Vdd)	-	
Input TypeNon-InvertingInput TypeAuto Restart, Status FlagFeaturesAuto Restart, Status FlagFault ProtectionCurrent Limiting (Fixed), Open Load Detect, Over Temperature, Over Voltage, Short Circuit, UVLOOperating Temperature-40°C ~ 150°C (TJ)Package / Case16-PowerLFSOP (0.154", 3.90mm Width)Supplier Device PackagePowerSSO-16	Current - Output (Max)	35A	
FeaturesAuto Restart, Status FlagFault ProtectionCurrent Limiting (Fixed), Open Load Detect, Over Temperature, Over Voltage, Short Circuit, UVLOOperating Temperature-40°C ~ 150°C (TJ)Package / Case16-PowerLFSOP (0.154", 3.90mm Width)Supplier Device PackagePowerSSO-16	Rds On (Typ)	10.5mOhm	
Fault ProtectionCurrent Limiting (Fixed), Open Load Detect, Over Temperature, Over Voltage, Short Circuit, UVLOOperating Temperature-40°C ~ 150°C (TJ)Package / Case16-PowerLFSOP (0.154", 3.90mm Width)Supplier Device PackagePowerSSO-16	Input Type	Non-Inverting	
Pault ProtectionUVLOOperating Temperature-40°C ~ 150°C (TJ)Package / Case16-PowerLFSOP (0.154", 3.90mm Width)Supplier Device PackagePowerSSO-16	Features	Auto Restart, Status Flag	
Package / Case16-PowerLFSOP (0.154", 3.90mm Width)Supplier Device PackagePowerSSO-16	Fault Protection		
Supplier Device Package PowerSSO-16	Operating Temperature	-40°C ~ 150°C (TJ)	
	Package / Case	16-PowerLFSOP (0.154", 3.90mm Width)	
Report errors?	Supplier Device Package	PowerSSO-16	
		Report errors?	

#### **VN7E010AJTR 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 EUARANTEE

#### **Service Guarantees**

We guarantee 100% customer satisfaction. Our experienced sales team and tech support team back our services to satisfy all our customers.

#### **VN7E010AJTR Payment Methods**





If you have any question about VN7E010AJTR, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com