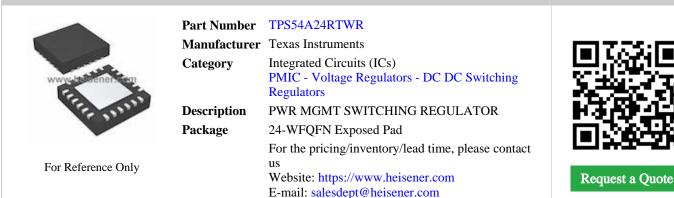


TPS54A24RTWR

TPS54A24RTWR Information



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.



TPS54A24RTWR Specifications

ManufacturerTexas InstrumentsCategoryIntegrated Circuits (ICs)PMIC - Voltage Regulators - DC DC Switching RegulatorsPackage24-WFQFN Exposed PadPackage-Series-FunctionStep-DownOutput ConfigurationPositiveTopologyBuckOutput TypeAdjustableNumber of Outputs1Voltage - Input (Min)4.5VVoltage - Output (Min/Fixed)0.6VVoltage - Output (Min/Fixed)12VCurrent - Output0.6VVoltage - Output (Max)10ASynchronous Rectifier900kHz ~ 1.6MHzSynchronous RectifierYesOperating Temperature4.0°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case2.4WEQFN Exposed PadSupplier Device Package2.4WQFN (4x4)		
Category Integrated Circuits (ICs) PAckage PMIC - Voltage Regulators - DC DC Switching Regulators Package 24-WFQFN Exposed Pad Series - Function Step-Down Output Configuration Step-Down Output Configuration Buck Output Type Adjustable Number of Outputs 1 Voltage - Input (Min) 4.5V Voltage - Output (Min/Fixed) 0.6V Voltage - Output (Min/Fixed) 0.6V Voltage - Output (Max) 12V Current - Output 10A Frequency - Switching 200kHz ~ 1.6MHz Synchronous Rectifier Yes Operating Temperature -40°C ~ 150°C (TJ) Mounting Type Surface Mount Package / Case 24-WFQFN Exposed Pad Supplier Device Package 24-WQFN (4x4)	Manufacturer Part Number	TPS54A24RTWR
PMIC - Voltage Regulators - DC DC Switching RegulatorsPackage24-WFQFN Exposed PadSeries-FunctionStep-DownOutput ConfigurationPositiveBuckOutput TypeAdjustableNumber of Outputs1Voltage - Input (Min)4.5VVoltage - Output (Min/Fixed)0.6VVoltage - Output (Min/Fixed)0.6VVoltage - Output (Min/Fixed)12VCurrent - Output10AFrequency - Switching200kHz ~ 1.6MHzSynchronous RectifierYesOperating Temperature4.0°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case24-WFQFN Exposed PadSupplier Device Package24-WFQFN Exposed Pad	Manufacturer	Texas Instruments
Package24-WFQFN Exposed PadSeries-FunctionStep-DownOutput ConfigurationPositiveTopologyBuckOutput TypeAdjustableNumber of Outputs1Voltage - Input (Min)4.5VVoltage - Input (Min/Fixed)0.6VVoltage - Output (Min/Fixed)12VVoltage - Output (Max)12VCurrent - Output10AFrequency - Switching200kHz ~ 1.6MHzSynchronous RectifierYesOperating Temperature-40°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case24-WFQFN Exposed PadSupplier Device Package24-WQFN (4x4)	Category	Integrated Circuits (ICs)
Series-FunctionStep-DownOutput ConfigurationPositiveTopologyBuckOutput TypeAdjustableOutput Type1Voltage - Input (Min)4.5VVoltage - Input (Min/Fixed)0.6VVoltage - Output (Min/Fixed)0.6VVoltage - Output (Max)12VCurrent - Output10AFrequency - Switching200kHz ~ 1.6MHzSynchronous RectifierYesOperating Temperature-40°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case24-WQFN Exposed PadSupplier Device Package24-WQFN (4x4)		PMIC - Voltage Regulators - DC DC Switching Regulators
FunctionStep-DownOutput ConfigurationPositiveTopologyBuckOutput TypeAdjustableOutput Type1Number of Outputs1Voltage - Input (Min)4.5VVoltage - Output (Min/Fixed)0.6VVoltage - Output (Min/Fixed)12VVoltage - Output (Max)12VCurrent - Output10AFrequency - Switching200kHz ~ 1.6MHzSynchronous Rectifier-40°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case24-WFQFN Exposed PadSupplier Device Package24-WQFN (4x4)	Package	24-WFQFN Exposed Pad
Output ConfigurationPositiveTopologyBuckOutput TypeAdjustableNumber of Outputs1Voltage - Input (Min)4.5VVoltage - Input (Max)17VVoltage - Output (Min/Fixed)0.6VVoltage - Output (Max)12VCurrent - Output10AFrequency - Switching200kHz ~ 1.6MHzSynchronous RectifierYesOperating Temperature-40°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case24-WQFN (4x4)	Series	-
TopologyBuckOutput TypeAdjustableNumber of Outputs1Voltage - Input (Min)4.5VVoltage - Input (Max)17VVoltage - Output (Min/Fixed)0.6VVoltage - Output (Max)12VCurrent - Output10AFrequency - Switching200kHz ~ 1.6MHzSynchronous RectifierYesOperating Temperature-40°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case24-WFQFN Exposed PadSupplier Device Package24-WQFN (4x4)	Function	Step-Down
Output TypeAdjustableOutput TypeAdjustableNumber of Outputs1Voltage - Input (Min)4.5VVoltage - Input (Max)17VVoltage - Output (Min/Fixed)0.6VVoltage - Output (Max)12VCurrent - Output10AFrequency - Switching200kHz ~ 1.6MHzSynchronous RectifierYesOperating Temperature-40°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case24-WFQFN Exposed PadSupplier Device Package24-WQFN (4x4)	Output Configuration	Positive
Number of Outputs1Number of Outputs1Voltage - Input (Min)4.5VVoltage - Input (Max)17VVoltage - Output (Min/Fixed)0.6VVoltage - Output (Max)12VCurrent - Output10AFrequency - Switching200kHz ~ 1.6MHzSynchronous RectifierYesOperating Temperature-40°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case24-WFQFN Exposed PadSupplier Device Package24-WQFN (4x4)	Topology	Buck
Voltage - Input (Min)4.5VVoltage - Input (Max)17VVoltage - Output (Min/Fixed)0.6VVoltage - Output (Max)12VCurrent - Output10AFrequency - Switching200kHz ~ 1.6MHzSynchronous RectifierYesOperating Temperature-40°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case24-WFQFN Exposed PadSupplier Device Package24-WQFN (4x4)	Output Type	Adjustable
Voltage - Input (Max)17VVoltage - Output (Min/Fixed)0.6VVoltage - Output (Max)12VCurrent - Output10AFrequency - Switching200kHz ~ 1.6MHzSynchronous RectifierYesOperating Temperature-40°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case24-WFQFN Exposed PadSupplier Device Package24-WQFN (4x4)	Number of Outputs	1
Voltage - Output (Min/Fixed)0.6VVoltage - Output (Max)12VCurrent - Output10AFrequency - Switching200kHz ~ 1.6MHzSynchronous RectifierYesOperating Temperature-40°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case24-WFQFN Exposed PadSupplier Device Package24-WQFN (4x4)	Voltage - Input (Min)	4.5V
Voltage - Output (Max)12VCurrent - Output10AFrequency - Switching200kHz ~ 1.6MHzSynchronous RectifierYesOperating Temperature-40°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case24-WFQFN Exposed PadSupplier Device Package24-WQFN (4x4)	Voltage - Input (Max)	17V
Current - Output10AFrequency - Switching200kHz ~ 1.6MHzSynchronous RectifierYesOperating Temperature-40°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case24-WFQFN Exposed PadSupplier Device Package24-WQFN (4x4)	Voltage - Output (Min/Fixed)	0.6V
Frequency - Switching200kHz ~ 1.6MHzSynchronous RectifierYesOperating Temperature-40°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case24-WFQFN Exposed PadSupplier Device Package24-WQFN (4x4)	Voltage - Output (Max)	12V
Synchronous RectifierYesOperating Temperature-40°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case24-WFQFN Exposed PadSupplier Device Package24-WQFN (4x4)	Current - Output	10A
Operating Temperature-40°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case24-WFQFN Exposed PadSupplier Device Package24-WQFN (4x4)	Frequency - Switching	200kHz ~ 1.6MHz
Mounting TypeSurface MountPackage / Case24-WFQFN Exposed PadSupplier Device Package24-WQFN (4x4)	Synchronous Rectifier	Yes
Package / Case24-WFQFN Exposed PadSupplier Device Package24-WQFN (4x4)	Operating Temperature	-40°C ~ 150°C (TJ)
Supplier Device Package24-WQFN (4x4)	Mounting Type	Surface Mount
	Package / Case	24-WFQFN Exposed Pad
Report errors?	Supplier Device Package	24-WQFN (4x4)
		Report errors?

TPS54A24RTWR 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 ELARANTEE

Service Guarantees

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

TPS54A24RTWR Payment Methods





If you have any question about TPS54A24RTWR, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com