



#### **TPS53632GRSMT Information**



For Reference Only

Part Number TPS53632GRSMT

Manufacturer Texas Instruments

Category Integrated Circuits (ICs)

PMIC - Voltage Regulators - DC DC Switching

Controllers

**Description** IC REG CTRLR HALF-BRIDGE 32VQFN

Package 32-VFQFN Exposed Pad

For the pricing/inventory/lead time, please contact

us

Website: https://www.heisener.com E-mail: salesdept@heisener.com



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## **Certified Quality**

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## **TPS53632GRSMT Specifications**

Manufacturer Part NumberTPS53632GRSMTManufacturerTexas InstrumentsCategoryIntegrated Circuits (ICs)PMIC - Voltage Regulators - DC DC Switching ControllersPackage32-VFQFN Exposed PadSeriesD-CAP+?Output TypePWM SignalFunctionStep-Up/Step-DownOutput ConfigurationPositiveTopologyHalf-BridgeNumber of Outputs2Output Phases2Voltage - Supply (Vcc/Vdd)3.1 V ~ 28 VFrequency - Switching100kHz ~ 1MHzDuty Cycle (Max)-Synchronous RectifierYesClock SyncNoSerial InterfacesI2CControl FeaturesEnable, Frequency Control, Power Good, Pulse Skipping, Ramp, Slew Control		
Category Integrated Circuits (ICs) PMIC - Voltage Regulators - DC DC Switching Controllers  Package 32-VFQFN Exposed Pad  Series D-CAP+? Output Type PWM Signal  Function Step-Up/Step-Down Output Configuration Positive  Topology Half-Bridge  Number of Outputs 2  Output Phases 2  Voltage - Supply (Vcc/Vdd) 3.1 V ~ 28 V  Frequency - Switching 100kHz ~ 1MHz  Duty Cycle (Max) -  Synchronous Rectifier Yes Clock Sync No Serial Interfaces 12C	Manufacturer Part Number	TPS53632GRSMT
Package 32-VFQFN Exposed Pad  Series D-CAP+? Output Type PWM Signal Function Step-Up/Step-Down Output Configuration Positive  Topology Half-Bridge Number of Outputs 2 Output Phases 2 Voltage - Supply (Vcc/Vdd) 3.1 V ~ 28 V Frequency - Switching 100kHz ~ 1MHz Duty Cycle (Max) - Synchronous Rectifier Yes Clock Sync No Serial Interfaces 12C	Manufacturer	Texas Instruments
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Series D-CAP+? Output Type PWM Signal Function Step-Up/Step-Down Output Configuration Positive Topology Half-Bridge Number of Outputs 2 Output Phases 2 Voltage - Supply (Vcc/Vdd) 3.1 V ~ 28 V Frequency - Switching 100kHz ~ 1MHz Duty Cycle (Max) Synchronous Rectifier Yes Clock Sync No Serial Interfaces 12C		PMIC - Voltage Regulators - DC DC Switching Controllers
Output Type PWM Signal Function Step-Up/Step-Down Output Configuration Positive Topology Half-Bridge Number of Outputs 2 Output Phases 2 Voltage - Supply (Vcc/Vdd) 3.1 V ~ 28 V Frequency - Switching 100kHz ~ 1MHz Duty Cycle (Max) Synchronous Rectifier Yes Clock Sync No Serial Interfaces I2C	Package	32-VFQFN Exposed Pad
Function Step-Up/Step-Down Output Configuration Positive  Topology Half-Bridge Number of Outputs 2 Output Phases 2 Voltage - Supply (Vcc/Vdd) 3.1 V ~ 28 V  Frequency - Switching 100kHz ~ 1MHz  Duty Cycle (Max) - Synchronous Rectifier Yes Clock Sync No Serial Interfaces 12C	Series	D-CAP+?
Output Configuration Positive  Topology Half-Bridge  Number of Outputs 2  Output Phases 2  Voltage - Supply (Vcc/Vdd) 3.1 V ~ 28 V  Frequency - Switching 100kHz ~ 1MHz  Duty Cycle (Max) -  Synchronous Rectifier Yes  Clock Sync No  Serial Interfaces 12C	Output Type	PWM Signal
Topology Number of Outputs 2 Output Phases 2 Voltage - Supply (Vcc/Vdd) 3.1 V ~ 28 V Frequency - Switching 100kHz ~ 1MHz Duty Cycle (Max) Synchronous Rectifier Yes Clock Sync No Serial Interfaces I2C	Function	Step-Up/Step-Down
Number of Outputs2Output Phases2Voltage - Supply (Vcc/Vdd)3.1 V ~ 28 VFrequency - Switching100kHz ~ 1MHzDuty Cycle (Max)-Synchronous RectifierYesClock SyncNoSerial InterfacesI2C	Output Configuration	Positive
Output Phases 2  Voltage - Supply (Vcc/Vdd) 3.1 V ~ 28 V  Frequency - Switching 100kHz ~ 1MHz  Duty Cycle (Max) -  Synchronous Rectifier Yes  Clock Sync No  Serial Interfaces I2C	Topology	Half-Bridge
Voltage - Supply (Vcc/Vdd)  3.1 V ~ 28 V  Frequency - Switching  100kHz ~ 1MHz  Duty Cycle (Max)  Synchronous Rectifier  Yes  Clock Sync  No  Serial Interfaces  I2C	Number of Outputs	2
Frequency - Switching 100kHz ~ 1MHz  Duty Cycle (Max) -  Synchronous Rectifier Yes  Clock Sync No  Serial Interfaces I2C	Output Phases	2
Duty Cycle (Max)  Synchronous Rectifier  Yes  Clock Sync  No  Serial Interfaces  I2C	Voltage - Supply (Vcc/Vdd)	3.1 V ~ 28 V
Synchronous Rectifier Yes Clock Sync No Serial Interfaces I2C	Frequency - Switching	100kHz ~ 1MHz
Clock Sync No Serial Interfaces I2C	Duty Cycle (Max)	-
Serial Interfaces I2C	Synchronous Rectifier	Yes
	Clock Sync	No
Control Features Enable, Frequency Control, Power Good, Pulse Skipping, Ramp, Slew Control	Serial Interfaces	12C
	Control Features	Enable, Frequency Control, Power Good, Pulse Skipping, Ramp, Slew Control
Operating Temperature $-10^{\circ}\text{C} \sim 105^{\circ}\text{C} \text{ (TA)}$	Operating Temperature	$-10^{\circ}\text{C} \sim 105^{\circ}\text{C} \text{ (TA)}$
Package / Case 32-VFQFN Exposed Pad	Package / Case	32-VFQFN Exposed Pad
Supplier Device Package 32-VQFN (4x4)	Supplier Device Package	32-VQFN (4x4)
Report errors		Report errors?

#### **TPS53632GRSMT 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.

# **TPS53632GRSMT Payment Methods**



















## **TPS53632GRSMT Shipping Methods**













If you have any question about TPS53632GRSMT, please do not hesitate to contact us!

Website: https://www.heisener.com E-mail: salesdept@heisener.com