



## **TPS2557QDRBRQ1 Information**



For Reference Only

Part Number TPS2557QDRBRQ1 Manufacturer Texas Instruments Category Integrated Circuits (ICs)

PMIC - Power Distribution Switches, Load Drivers

**Description** IC PWR DIST SWITCH ADJ 8SON 8-VDFN Exposed Pad

For the pricing/inventory/lead time, please contact

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



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## **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.

**Package** 









# **TPS2557QDRBRQ1 Specifications**

Manufacturer Part Number         TPS2557QDRBRQ1           Manufacturer         Texas Instruments           Category         Integrated Circuits (ICs)           PMIC - Power Distribution Switches, Load Drivers           Package         8-VDFN Exposed Pad           Series         Automotive, AEC-Q100           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         2.5 V ~ 6.5 V           Voltage - Supply (Vcc/Vdd)         Not Required           Current - Output (Max)         5           As On (Typ)         22 mOhm           Input Type         Non-Inverting           Features         Slew Rate Controlled, Status Flag           Fault Protection         Current Limiting (Adjustable), Over Temperature, UVLO           Operating Temperature         -40°C ~ 125°C (TI)           Package / Case         8-VDFN Exposed Pad           Supplier Device Package         8-SON (3x3)		
Category         Integrated Circuits (ICs)           PMIC - Power Distribution Switches, Load Drivers           Package         8-VDFN Exposed Pad           Series         Automotive, AEC-Q100           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         2.5 V ~ 6.5 V           Voltage - Supply (Vcc/Vdd)         Not Required           Current - Output (Max)         5A           Rds On (Typ)         22 mOhm           Input Type         Non-Inverting           Features         Slew Rate Controlled, Status Flag           Fault Protection         Current Limiting (Adjustable), Over Temperature, UVLO           Operating Temperature         -40°C ~ 125°C (TJ)           Package / Case         8-VDFN Exposed Pad           Supplier Device Package         8-SON (3x3)	Manufacturer Part Number	TPS2557QDRBRQ1
Package8-VDFN Exposed PadSeriesAutomotive, AEC-Q100Switch TypeGeneral PurposeNumber of Outputs1Ratio - Input:Output1:1Output ConfigurationHigh SideOutput TypeN-ChannelInterfaceOn/OffVoltage - Load2.5 V ~ 6.5 VVoltage - Supply (Vcc/Vdd)Not RequiredCurrent - Output (Max)5ARds On (Typ)22 mOhmInput TypeNon-InvertingFeaturesSlew Rate Controlled, Status FlagFault ProtectionCurrent Limiting (Adjustable), Over Temperature, UVLOOperating Temperature-40°C ~ 125°C (TJ)Package / Case8-VDFN Exposed PadSupplier Device Package8-SON (3x3)	Manufacturer	Texas Instruments
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SeriesAutomotive, AEC-Q100Switch TypeGeneral PurposeNumber of Outputs1Ratio - Input:Output1:1Output ConfigurationHigh SideOutput TypeN-ChannelInterfaceOn/OffVoltage - Load2.5 V ~ 6.5 VVoltage - Supply (Vcc/Vdd)Not RequiredCurrent - Output (Max)5ARds On (Typ)22 mOhmInput TypeNon-InvertingFeaturesSlew Rate Controlled, Status FlagFault ProtectionCurrent Limiting (Adjustable), Over Temperature, UVLOOperating Temperature-40°C ~ 125°C (TJ)Package / Case8-VDFN Exposed PadSupplier Device Package8-SON (3x3)		PMIC - Power Distribution Switches, Load Drivers
Switch TypeGeneral PurposeNumber of Outputs1Ratio - Input:Output1:1Output ConfigurationHigh SideOutput TypeN-ChannelInterfaceOn/OffVoltage - Load $2.5 \text{ V} \sim 6.5 \text{ V}$ Voltage - Supply (Vcc/Vdd)Not RequiredCurrent - Output (Max) $5A$ Rds On (Typ) $22 \text{ mOhm}$ Input TypeNon-InvertingFeaturesSlew Rate Controlled, Status FlagFault ProtectionCurrent Limiting (Adjustable), Over Temperature, UVLOOperating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ (TJ)Package / Case8-VDFN Exposed PadSupplier Device Package8-SON (3x3)	Package	8-VDFN Exposed Pad
Number of Outputs  Ratio - Input:Output  1:1  Output Configuration  High Side  Output Type  N-Channel  Interface  On/Off  Voltage - Load  2.5 V ~ 6.5 V  Voltage - Supply (Vcc/Vdd)  Not Required  Current - Output (Max)  SA  Rds On (Typ)  1nput Type  Non-Inverting  Features  Slew Rate Controlled, Status Flag  Fault Protection  Current Limiting (Adjustable), Over Temperature, UVLO  Operating Temperature  -40°C ~ 125°C (TJ)  Package / Case  8-VDFN Exposed Pad  Supplier Device Package  8-SON (3x3)	Series	Automotive, AEC-Q100
Ratio - Input:Output1:1Output ConfigurationHigh SideOutput TypeN-ChannelInterfaceOn/OffVoltage - Load2.5 V ~ 6.5 VVoltage - Supply (Vcc/Vdd)Not RequiredCurrent - Output (Max)5ARds On (Typ)22 mOhmInput TypeNon-InvertingFeaturesSlew Rate Controlled, Status FlagFault ProtectionCurrent Limiting (Adjustable), Over Temperature, UVLOOperating Temperature-40°C ~ 125°C (TJ)Package / Case8-VDFN Exposed PadSupplier Device Package8-SON (3x3)	Switch Type	General Purpose
Output Configuration Output Type N-Channel N-Channel Interface On/Off Voltage - Load 2.5 V ~ 6.5 V Voltage - Supply (Vcc/Vdd) Not Required Current - Output (Max) SA Rds On (Typ) 22 mOhm Input Type Non-Inverting Features Slew Rate Controlled, Status Flag Fault Protection Current Limiting (Adjustable), Over Temperature, UVLO Operating Temperature -40°C ~ 125°C (TJ) Package / Case 8-VDFN Exposed Pad Supplier Device Package 8-SON (3x3)	Number of Outputs	1
Output TypeN-ChannelInterfaceOn/OffVoltage - Load2.5 V ~ 6.5 VVoltage - Supply (Vcc/Vdd)Not RequiredCurrent - Output (Max)5ARds On (Typ)22 mOhmInput TypeNon-InvertingFeaturesSlew Rate Controlled, Status FlagFault ProtectionCurrent Limiting (Adjustable), Over Temperature, UVLOOperating Temperature-40°C ~ 125°C (TJ)Package / Case8-VDFN Exposed PadSupplier Device Package8-SON (3x3)	Ratio - Input:Output	1:1
Interface On/Off  Voltage - Load 2.5 V ~ 6.5 V  Voltage - Supply (Vcc/Vdd) Not Required  Current - Output (Max) 5A  Rds On (Typ) 22 mOhm  Input Type Non-Inverting  Features Slew Rate Controlled, Status Flag  Fault Protection Current Limiting (Adjustable), Over Temperature, UVLO  Operating Temperature -40°C ~ 125°C (TJ)  Package / Case 8-VDFN Exposed Pad  Supplier Device Package 8-SON (3x3)	Output Configuration	High Side
Voltage - Load  2.5 V ~ 6.5 V  Voltage - Supply (Vcc/Vdd)  Not Required  Current - Output (Max)  5A  Rds On (Typ)  22 mOhm  Input Type  Non-Inverting  Features  Slew Rate Controlled, Status Flag  Fault Protection  Current Limiting (Adjustable), Over Temperature, UVLO  Operating Temperature  -40°C ~ 125°C (TJ)  Package / Case  8-VDFN Exposed Pad  Supplier Device Package  8-SON (3x3)	Output Type	N-Channel
Voltage - Supply (Vcc/Vdd)  Not Required  Current - Output (Max)  SA  Rds On (Typ)  1nput Type  Non-Inverting  Features  Slew Rate Controlled, Status Flag  Fault Protection  Current Limiting (Adjustable), Over Temperature, UVLO  Operating Temperature  -40°C ~ 125°C (TJ)  Package / Case  8-VDFN Exposed Pad  Supplier Device Package  8-SON (3x3)	Interface	On/Off
Current - Output (Max)  Rds On (Typ)  22 mOhm  Input Type  Non-Inverting  Features  Slew Rate Controlled, Status Flag  Fault Protection  Current Limiting (Adjustable), Over Temperature, UVLO  Operating Temperature  -40°C ~ 125°C (TJ)  Package / Case  8-VDFN Exposed Pad  Supplier Device Package  8-SON (3x3)	Voltage - Load	2.5 V ~ 6.5 V
Rds On (Typ)22 mOhmInput TypeNon-InvertingFeaturesSlew Rate Controlled, Status FlagFault ProtectionCurrent Limiting (Adjustable), Over Temperature, UVLOOperating Temperature-40°C ~ 125°C (TJ)Package / Case8-VDFN Exposed PadSupplier Device Package8-SON (3x3)	Voltage - Supply (Vcc/Vdd)	Not Required
Input Type  Non-Inverting  Features  Slew Rate Controlled, Status Flag  Fault Protection  Current Limiting (Adjustable), Over Temperature, UVLO  Operating Temperature  -40°C ~ 125°C (TJ)  Package / Case  8-VDFN Exposed Pad  Supplier Device Package  8-SON (3x3)	Current - Output (Max)	5A
Features Slew Rate Controlled, Status Flag Fault Protection Current Limiting (Adjustable), Over Temperature, UVLO Operating Temperature -40°C ~ 125°C (TJ) Package / Case 8-VDFN Exposed Pad Supplier Device Package 8-SON (3x3)	Rds On (Typ)	22 mOhm
Fault Protection Current Limiting (Adjustable), Over Temperature, UVLO  Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ (TJ)  Package / Case 8-VDFN Exposed Pad  Supplier Device Package 8-SON (3x3)	Input Type	Non-Inverting
Operating Temperature -40°C ~ 125°C (TJ)  Package / Case 8-VDFN Exposed Pad  Supplier Device Package 8-SON (3x3)	Features	Slew Rate Controlled, Status Flag
Package / Case 8-VDFN Exposed Pad Supplier Device Package 8-SON (3x3)	Fault Protection	Current Limiting (Adjustable), Over Temperature, UVLO
Supplier Device Package 8-SON (3x3)	Operating Temperature	-40°C ~ 125°C (TJ)
	Package / Case	8-VDFN Exposed Pad
Report errors?	Supplier Device Package	8-SON (3x3)
		Report errors?

### **TPS2557QDRBRQ1 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.

### **TPS2557QDRBRQ1 Payment Methods**



















## **TPS2557QDRBRQ1 Shipping Methods**













If you have any question about TPS2557QDRBRQ1, please do not hesitate to contact us!

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