

PDRV8305NQPHPRQ1

PDRV8305NQPHPRQ1 Information



For Reference Only

Part Number PDRV8305NQPHPRQ1
Manufacturer Texas Instruments
Category Integrated Circuits (ICs)
PMIC - Gate Drivers

Description IC GATE DRVR HALF-BRIDGE 48HTQFP

Package 48-TQFP 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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PDRV8305NQPHPRQ1 Specifications

| Manufacturer Part Number Manufacturer Texas Instruments Integrated Circuits (ICs) PMIC - Gate Drivers Package 48-TQFP Exposed Pad Series Automotive, AEC-Q100 Driven Configuration Half-Bridge Channel Type 3-Phase Number of Drivers 6 Gate Type N-Channel MOSFET Voltage - Supply 4.4 V ~ 45 V Logic Voltage - VIL, VIH 0.8V, 2V Current - Peak Output (Source, Sink) Input Type High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature Mounting Type Surface Mount Package / Care 1 Texas Instruments 1 A. A. Tope Exposed Red 1 A. TOFP Exposed Red 1 A. TOFP Exposed Red 1 A. TOFP Exposed Red | | |
|---|--------------------------------------|---------------------------|
| Category Integrated Circuits (ICs) PMIC - Gate Drivers Package 48-TQFP Exposed Pad Series Automotive, AEC-Q100 Driven Configuration Half-Bridge Channel Type 3-Phase Number of Drivers 6 Gate Type N-Channel MOSFET Voltage - Supply 4.4 V ~ 45 V Logic Voltage - VIL, VIH 0.8V, 2V Current - Peak Output (Source, Sink) Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature -40°C ~ 150°C (TJ) Mounting Type | Manufacturer Part Number | PDRV8305NQPHPRQ1 |
| Package 48-TQFP Exposed Pad Series Automotive, AEC-Q100 Driven Configuration Half-Bridge Channel Type 3-Phase Number of Drivers 6 Gate Type N-Channel MOSFET Voltage - Supply 4.4 V ~ 45 V Logic Voltage - VIL, VIH 0.8V, 2V Current - Peak Output (Source, Sink) 1A, 1A Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature -40°C ~ 150°C (TJ) Mounting Type Surface Mount | Manufacturer | Texas Instruments |
| Package 48-TQFP Exposed Pad Series Automotive, AEC-Q100 Driven Configuration Half-Bridge Channel Type 3-Phase Number of Drivers 6 Gate Type N-Channel MOSFET Voltage - Supply 4.4 V ~ 45 V Logic Voltage - VIL, VIH 0.8V, 2V Current - Peak Output (Source, Sink) 1A, 1A Input Type Non-Inverting High Side Voltage - Max (Bootstrap) - Rise / Fall Time (Typ) - Operating Temperature -40°C ~ 150°C (TJ) Mounting Type Surface Mount | Category | Integrated Circuits (ICs) |
| Series Automotive, AEC-Q100 Driven Configuration Half-Bridge Channel Type 3-Phase Number of Drivers 6 Gate Type N-Channel MOSFET Voltage - Supply 4.4 V ~ 45 V Logic Voltage - VIL, VIH 0.8V, 2V Current - Peak Output (Source, Sink) 1A, 1A Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) - Operating Temperature -40°C ~ 150°C (TJ) Mounting Type Surface Mount | | PMIC - Gate Drivers |
| Driven Configuration Channel Type 3-Phase Number of Drivers 6 Gate Type N-Channel MOSFET Voltage - Supply 4.4 V ~ 45 V Logic Voltage - VIL, VIH 0.8V, 2V Current - Peak Output (Source, Sink) Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature Mounting Type Surface Mount | Package | 48-TQFP Exposed Pad |
| Channel Type Number of Drivers 6 Gate Type N-Channel MOSFET Voltage - Supply Logic Voltage - VIL, VIH 0.8V, 2V Current - Peak Output (Source, Sink) Input Type High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature Mounting Type 3-Phase 6 N-Channel MOSFET 4.4 V ~ 45 V 0.8V, 2V 1A, 1A Non-Inverting - VIL, VIH Non-Inverting - VIL, VIH Surface Mount Surface Mount | Series | Automotive, AEC-Q100 |
| Number of Drivers Gate Type N-Channel MOSFET Voltage - Supply 4.4 V ~ 45 V Logic Voltage - VIL, VIH 0.8V, 2V Current - Peak Output (Source, Sink) Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature -40°C ~ 150°C (TJ) Mounting Type Surface Mount | Driven Configuration | Half-Bridge |
| Gate TypeN-Channel MOSFETVoltage - Supply4.4 V ~ 45 VLogic Voltage - VIL, VIH0.8V, 2VCurrent - Peak Output (Source, Sink)1A, 1AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)-Operating Temperature-40°C ~ 150°C (TJ)Mounting TypeSurface Mount | Channel Type | 3-Phase |
| Voltage - Supply Logic Voltage - VIL, VIH 0.8V, 2V Current - Peak Output (Source, Sink) Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature Mounting Type 4.4 V ~ 45 V 0.8V, 2V Input Type Non-Inverting - Voltage - Max (Bootstrap) - Surface Mount | Number of Drivers | 6 |
| Logic Voltage - VIL, VIH0.8V, 2VCurrent - Peak Output (Source, Sink)1A, 1AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)-Operating Temperature-40°C ~ 150°C (TJ)Mounting TypeSurface Mount | Gate Type | N-Channel MOSFET |
| Current - Peak Output (Source, Sink) Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature Mounting Type 1A, 1A Non-Inverting - C Surface Mount | Voltage - Supply | 4.4 V ~ 45 V |
| Input Type High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature Mounting Type Non-Inverting - 40°C ~ 150°C (TJ) Surface Mount | Logic Voltage - VIL, VIH | 0.8V, 2V |
| High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature -40°C ~ 150°C (TJ) Mounting Type Surface Mount | Current - Peak Output (Source, Sink) | 1A, 1A |
| Rise / Fall Time (Typ) Operating Temperature Mounting Type -40°C ~ 150°C (TJ) Surface Mount | Input Type | Non-Inverting |
| Operating Temperature -40°C ~ 150°C (TJ) Mounting Type Surface Mount | High Side Voltage - Max (Bootstrap) | - |
| Mounting Type Surface Mount | Rise / Fall Time (Typ) | - |
| | Operating Temperature | -40°C ~ 150°C (TJ) |
| Pagkaga / Casa | Mounting Type | Surface Mount |
| rackage / Case 40-1Qrr Exposed Pad | Package / Case | 48-TQFP Exposed Pad |
| Supplier Device Package 48-HTQFP (7x7) | Supplier Device Package | 48-HTQFP (7x7) |
| Report errors? | | Report errors? |

PDRV8305NQPHPRQ1 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.

PDRV8305NQPHPRQ1 Payment Methods

































If you have any question about PDRV8305NQPHPRQ1, please do not hesitate to contact us!

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