Order now > Quick add to cart

Help & FAQs

TI home / Semiconductors / Power management V / Power switches V / Load switches V / TPS22919



TPS22919DCKT 🕏 ACTIVE

Enter quantity

Add to cart

5.5-V, 1.5-A, 90-m Ω load switch with adj. output discharge

Inventory: 177,269

DATA SHEET 🔼 Download the data sheet for the TPS22919 | View all additional information for the TPS22919

Quality information

RoHS	Yes
REACH	Yes
Lead finish / Ball material	SN
MSL rating / Peak reflow	Level-1-260C- UNLIM

Quality, reliability

& packaging information (1)

View or download

More TPS22919 information

Parametrics

Technical documentation

Design & development

Support & training

Packaging information

Package Pins	Package qty Carrier:	Operating temperature range (°C)
SOT-SC70 (DCK) 6	250 SMALL T&R	-40 to 105

☑ View TI packaging information

Features for the TPS22919

- Input operating voltage range (V_{IN}): 1.6 V to 5.5 V
- Maximum continuous current (I_{MAX}): 1.5 A
- On-Resistance (R_{ON}):
 - 5-V V_{IN}: 89 mΩ (typical)
 - 3.6-V V_{IN}: 90 mΩ (typical)
 - 1.8-V V_{IN}: 105 mΩ (typical)
- Output short protection (I_{SC}): 3 A (typical)
- · Low power consumption:
 - ON state (I_Q): 8 μA (typical)
 - OFF state (I_{SD}): 2 nA (typical)
- Smart ON pin pull down (RPD):
 - ON ≥ V_{IH} (I_{ON}): 100 nA (maximum)
 - ∘ ON ≤ V_{IL} (R_{PD}): 530 kΩ(typical)
- Slow Turn ON timing to limit inrush current (t_{ON}):
 - 5.0 V Turn ON time (t_{ON}):
 - 1.95 ms at 3.2 mV/µs
 - 3.6 V Turn ON time (t_{ON}):
 - $1.75 \text{ ms at } 2.7 \text{ mV/}\mu\text{s}$
 - 1.8 V Turn ON time (ton):
 - $1.5 \, \text{ms}$ at $1.8 \, \text{mV/}\mu\text{s}$
- · Adjustable output discharge and fall time:
 - Internal QOD resistance = 24Ω (typical)

All trademarks are the property of their respective owners.

Description for the TPS22919

The TPS22919 device is a small, single channel load switch with controlled slew rate. Thedevice contains an N-channel MOSFET that can operate over an input voltage range of 1.6 V to 5.5 Vand can support a maximum continuous current of 1.5 A.

The switch ON state is controlled by a digital input that is capable of interfacing directly with low-voltage control signals. When power is first applied, a Smart Pull Down is used to keep the ON pin from floating until system sequencing

Pricing

Qty	Price (EUR)
1-99	€0.122
100-249	€0.083
250-999	€0.064
1,000+	€0.043

Additional package qty | carrier options •



Custom reel may be available

Enter quantity

Add to cart