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TPS22919QDCKRQ1 ♥ ACTIVE



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5.5V, 1.5A, $90m\Omega$ self-protected AEC Q100 qualified load switch with controlled rise time

Inventory: 189,624

DATA SHEET 🙎 Download the data sheet for the TPS22919-Q1 | View all additional information for the TPS22919-Q1

Quality information

RoHS	Yes
REACH	Yes
Lead finish / Ball material	NIPDAU
MSL rating / Peak reflow	Level-1-260C- UNLIM
Quality, reliability	

& packaging information 0 View or download

More TPS22919-Q1 information

Parametrics

Technical documentation

Design & development

Support & training

Packaging information

Package Pins	Package qty Carrier:	Operating temperature range (°C)
SOT-SC70 (DCK) 6	3,000 LARGE T&R	-40 to 125

☑ View TI packaging information

Features for the TPS22919-Q1

- · Qualified for automotive applications
- AEC-Q100 qualified:
 - Device temperature grade 1: -40°C to 125°C ambientoperating temperature
- 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)
 - $\circ~1.8\text{-V}~V_{\text{IN}}\!\!:105~\text{m}\Omega$ (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 $k\Omega$ (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 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 = 24 Ω (typical)

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Description for the TPS22919-Q1

The TPS22919-Q1 device is a small, single channel load switch with controlled slew rate. The device contains an N-channel MOSFET that can operate over an input voltage range of 1.6 V to 5.5 V and can support a maximum continuous

Pricing

Price (EUR)
€0.200
€0.136
€0.105
€0.070