Q Search

Ordering resources

7

TI home / Semiconductors / Power management 🗸 / USB power switches & charging port controllers 🗸 / TPS2553



TPS2553DBVR ♥ ACTIVE

75mA - 1.5A, adjustable ILIMIT, 2.5-6.5V, high enable, power switch, 85 mOhm

NEW - Custom reel may be available 2 Enter quantity

Add to cart

Inventory: 262,958

DATA SHEET 🔼 Download the data sheet for the TPS2553 | View all additional information for the TPS2553

Quality information

RoHS	3	Yes
REAC	CH	Yes
Lead mate	finish / Ball erial	NIPDAU
	rating / reflow	Level-1-260C- UNLIM
& pa	ity, reliability ckaging mation 1	View or download

More TPS2553 information

Parametrics

Technical documentation

Design & development

Support & training

Packaging information

Package Pins	Package qty Carrier:	Operating temperature range (°C)
SOT-23 (DBV) 6	3,000 LARGE T&R Custom reel may be available	-40 to 85

View TI packaging information

Features for the TPS2553

- Up to 1.5-A Maximum Load Current
- ±6% Current-Limit Accuracy at 1.7 A (Typical)
- · Meets USB Current-Limiting Requirements
- Backwards Compatible With TPS2550 and TPS2551
- Adjustable Current Limit: 75 mA to 1700 mA (Typical)
- Constant-Current (TPS255x) and Latch-Off (TPS255x-1) Versions
- Fast Overcurrent Response 2 μs (Typical)
- 85-mΩ High-Side MOSFET (DBV Package)
- Reverse Input-Output Voltage Protection
- Operating Range: 2.5 V to 6.5 V
- · Built-In Soft Start
- 15-kV ESD Protection per IEC 61000-4-2 (With External Capacitance)
- UL Listed File No. E169910 and NEMKO IEC60950-1-am1 ed2.0
- · See the TI Switch Portfolio

Description for the TPS2553

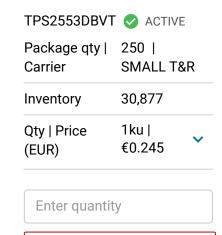
The TPS255x and TPS255x-1 power-distribution switches are intended for applications where precision current limiting is required or heavy capacitive loads and short circuits are encountered and provide up to 1.5 A of continuous load current. These devices offer a programmable current-limit threshold between 75 mA and 1.7 A (typical) through an external resistor. Current-limit accuracy as tight as ±6% can be achieved at the higher current-limit settings. The power-switch rise and fall times are controlled to minimize current surges during turnon and turnoff.

TPS255x devices limit the output current to a safe level by using a constantcurrent mode when the output load exceeds the current-limit threshold. TPS255x-1 devices provide circuit breaker functionality by latching off the power switch during overcurrent or reverse-voltage situations. An internal reverse-voltage comparator disables the power-switch when the output voltage is driven higher than the input to protect devices on the input side of the switch. The FAULT output asserts low during overcurrent and reverse-voltage conditions.

Pricing

Qty	Price (EUR)
1-99	€0.478
100-249	€0.395
250-999	€0.284
1,000+	€0.213

Additional package qty | carrier options •



Add to cart