

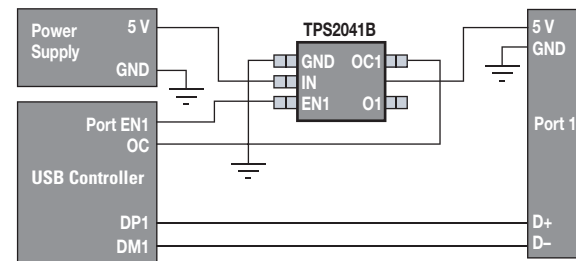
USB Power Switch Portfolio



Benefits of Current-Limited Switches for USB Power:

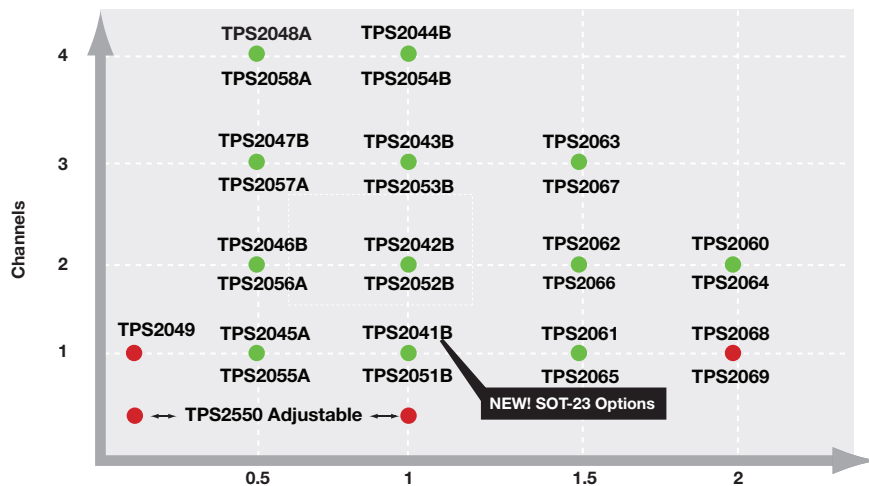
- On/off control for power
- End-user safety – meets UL[®] requirements!
- Limit current – protect load and supply
- Fault reporting capability for controller

Typical Application Diagram



Low Cost USB Power Switch Matrix/Roadmap

$R_{DS(on)} = 70\text{ m}\Omega$



Typical Current Limit (A)

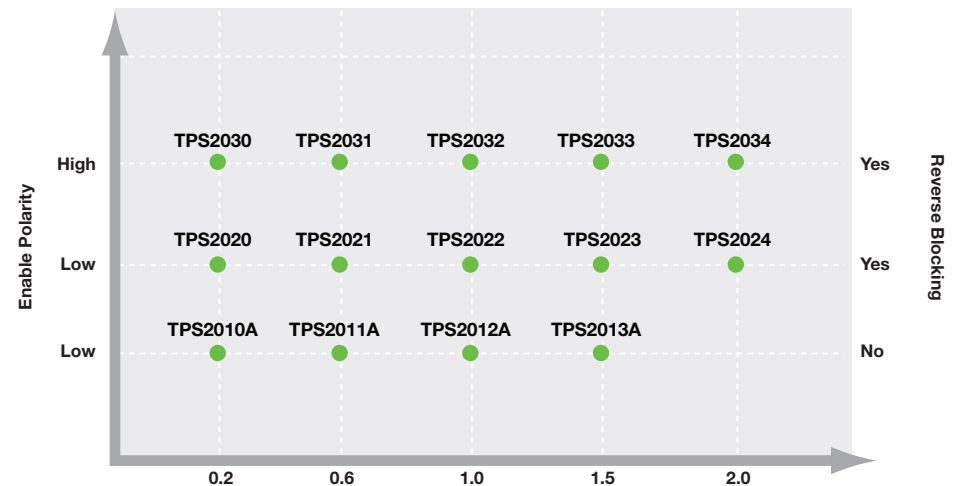
- Recent Release
- Released

* Note: Not all packages available for all products.

- * Packages:
- SOIC
 - MSOP
 - SOT23

Low $R_{DS(on)}$ Power Switch Roadmap

$R_{DS(on)} = 33\text{ m}\Omega$

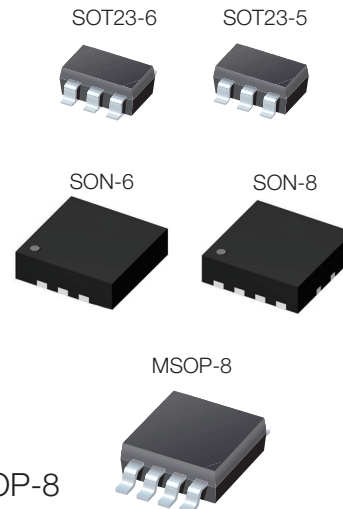


Typical Current Limit (A)

- Released

TPS204xB, TPS205xB

- Reverse current blocking
- 70 m Ω switch
- Up to 700 mA of continuous current
- Meets all USB specifications
- UL[®] Certified
- Wide V_{IN} 2.7 V to 5.5 V
- Thermal and short circuit protection
- Deglitched fault reporting
- Multi-sourced
- Single, dual and triple channels
- Industrial temp range: -40°C to 85°C
- Packages: SOIC-8, SOIC-16, SOT23-5, MSOP-8

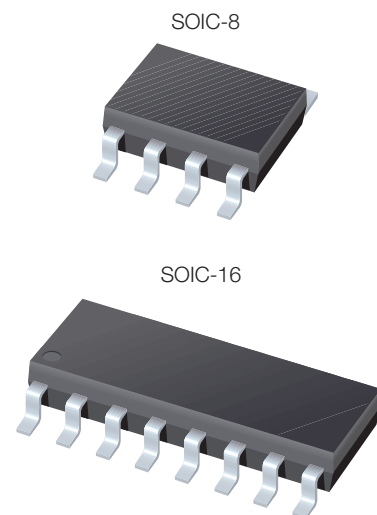


TPS206x-1

- Capacitor discharge function
- 70 m Ω switch
- Up to 1100 mA of continuous current
- Meets all USB specifications
- UL Certified
- Wide V_{IN} 2.7 V to 5.5 V
- Thermal and short circuit protection
- Deglitched fault reporting
- Multi-sourced
- Single and dual channels
- Industrial temp range: -40°C to 85°C
- Packages: SOIC-8, MSOP-8

TPS206x

- 70 m Ω switch
- Up to 1500 mA of continuous current
- Meets all USB specifications
- UL Certified
- Wide V_{IN} 2.7 V to 5.5 V
- Thermal and short circuit protection
- Deglitched fault reporting
- Multi-sourced
- Single, dual and triple channels
- Industrial temp range: -40°C to 85°C
- Channels can be ganged for double current, half $R_{DS(on)}$
- Packages: SOIC-8, MSOP-8, SON-8



TPS255x

- User adjustable current limit: 100 mA to 1100 mA
- Meets all USB specifications
- Wide V_{IN} 2.5 V to 6.5 V
- Thermal and short circuit protection
- Reverse Voltage protection
- Deglitched fault reporting
- Industrial temperature range: -40°C to 85°C
- Packages: SOT23-6, 2mm x 2mm SON-6



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