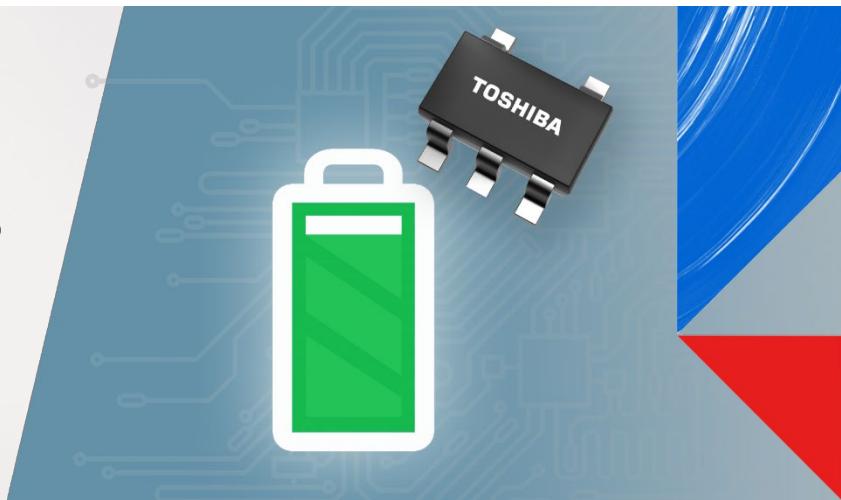


Load-Switch ICs



Low Loss & Long Life Operation With Low Quiescent Current

Toshiba load-switch ICs offer a low on-resistance for high efficiency switching results, important for power saving and thermal management. The low quiescent current improves long life operation of battery powered systems. Auto discharge, slew-rate control, overcurrent protection and thermal shutdown features enable an intelligent switching system design.

Applications

- Battery-powered systems
- IoT chipset
- Wi-Fi modules
- RF systems
- Sensor systems
- Wearables
- Healthcare
- Power sequencing

Features

- Ultra-low quiescent current
- Ultra-low on resistance
- Ultra-low standby plus switch-leakage current
- Two power supply switching
- Thermal shutdown
- Overcurrent and voltage protection
- True reverse current blocking
- Wide package range

Advantages

- Long battery life
- Low power loss
- Reduced height and volume constrains
- Self-protection against overvoltage, current and temperature
- Noise reduction

Benefits

- Very high efficiency
- Improved thermal management
- Smart operation
- Improved safety
- Long battery life operation
- Reduced product weight
- Less EMI

Overview of package size

The package options for Toshiba's load-switch ICs range from the smallest 0.42mm² WCSP4G package up to the largest SOT-25. The best thermal performance is achieved using the WCSP6E package which requires less than 1mm². Due to the low heights of WCSP and DFN packages, these load-switch ICs are particularly suitable for applications which require very flat package types.



