

All-Solid-State TFB

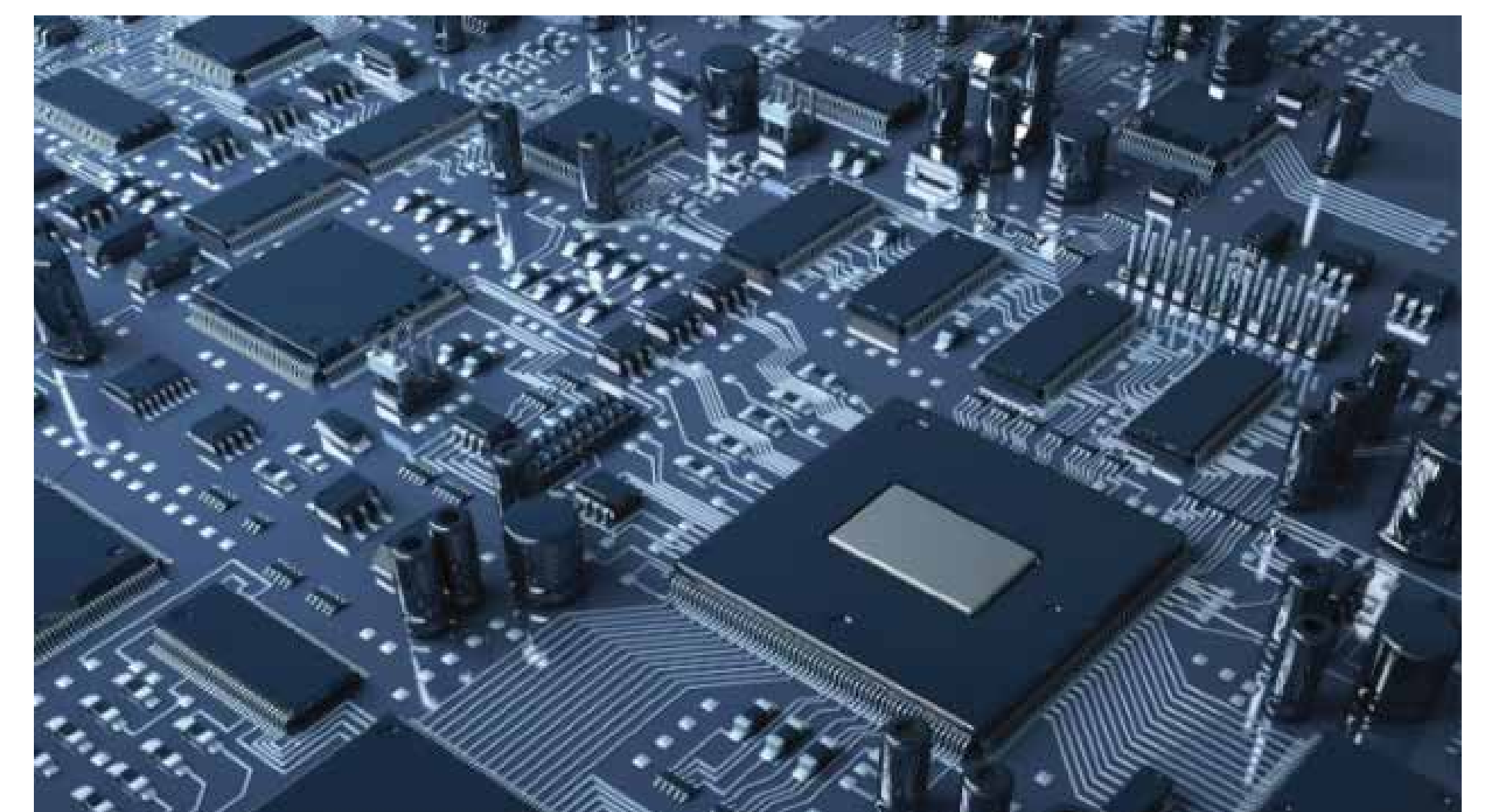
Application Prospect



Smart Contact Lenses



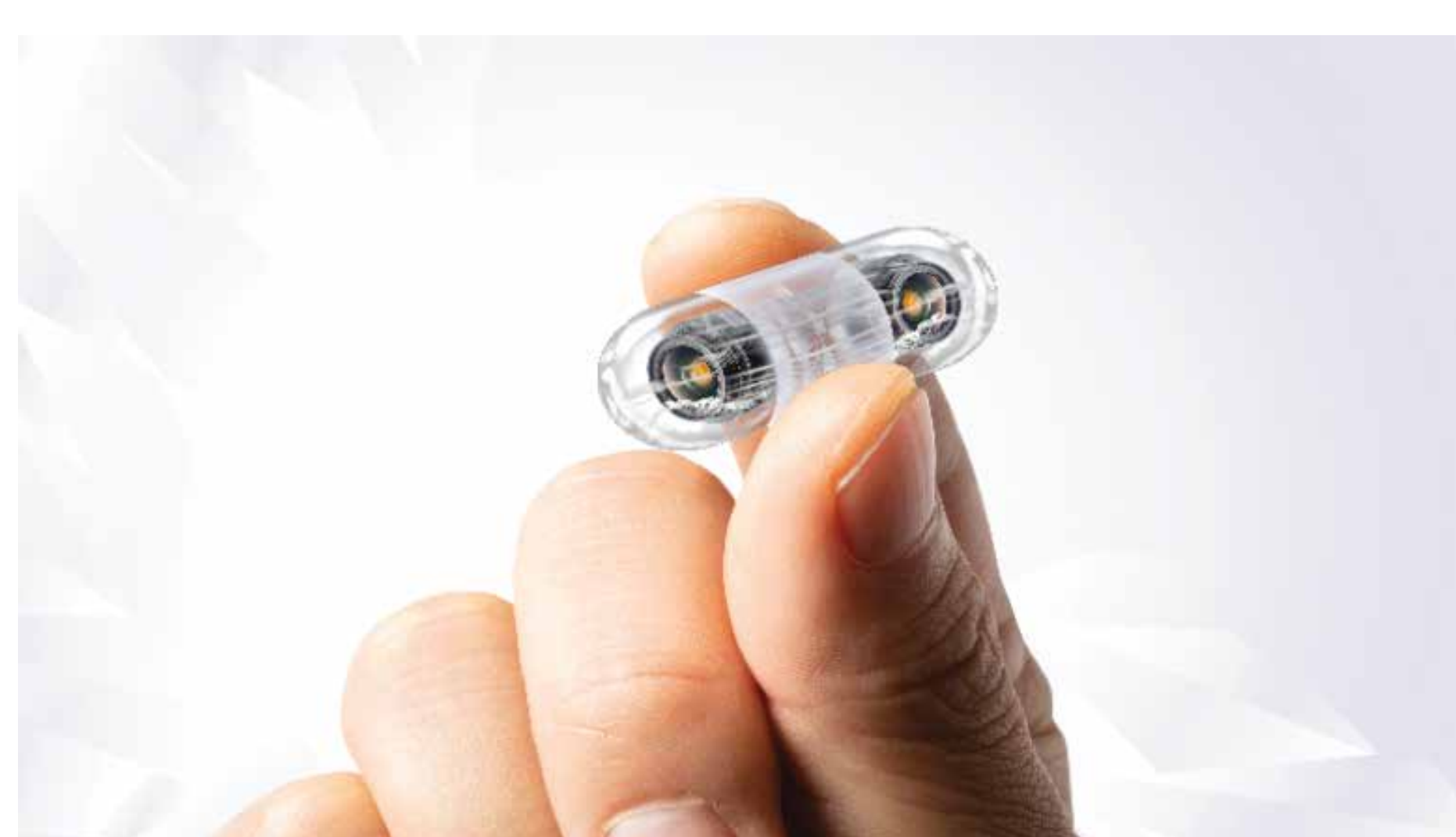
Smart Watch



Auxiliary Power Supply System



Smart Glasses



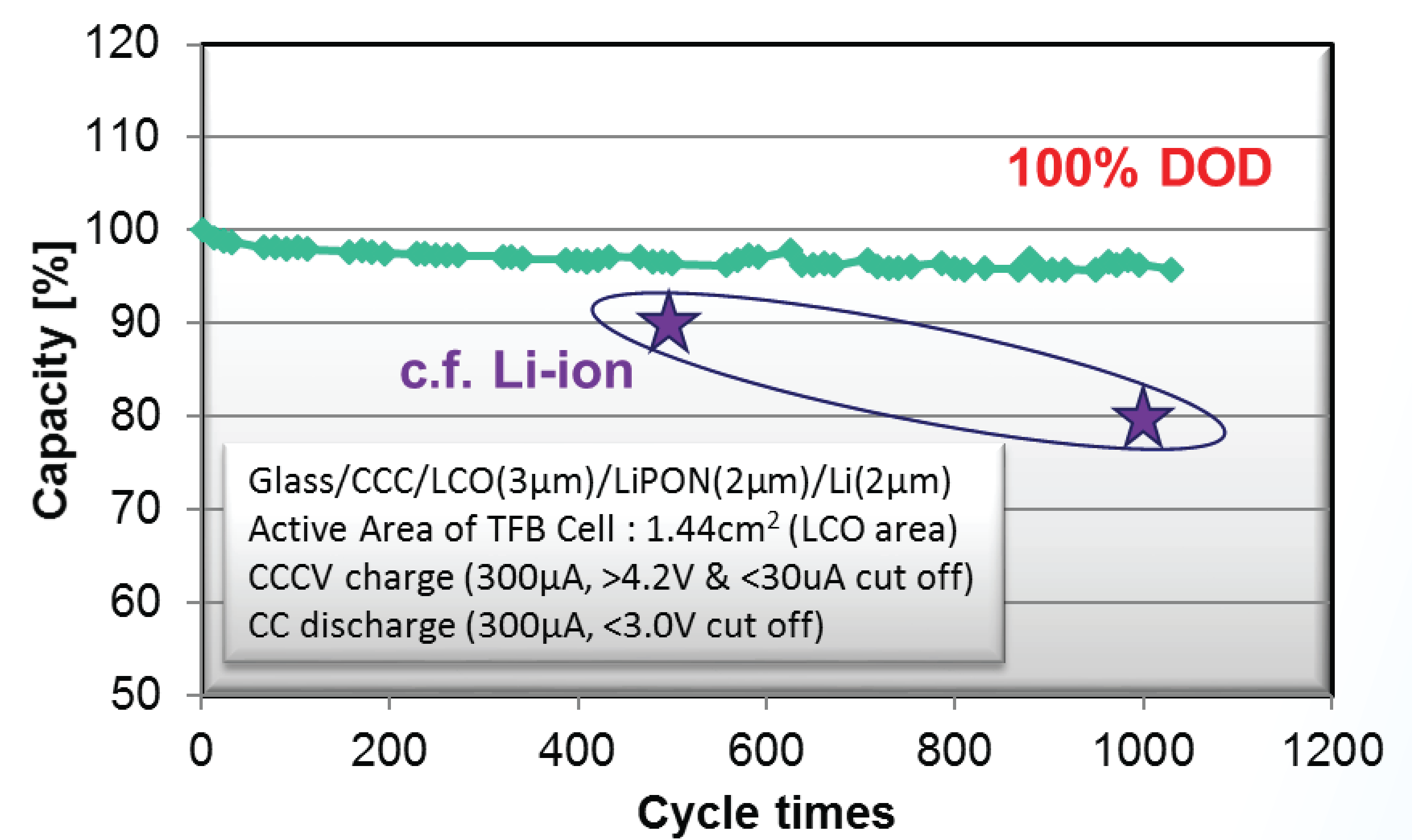
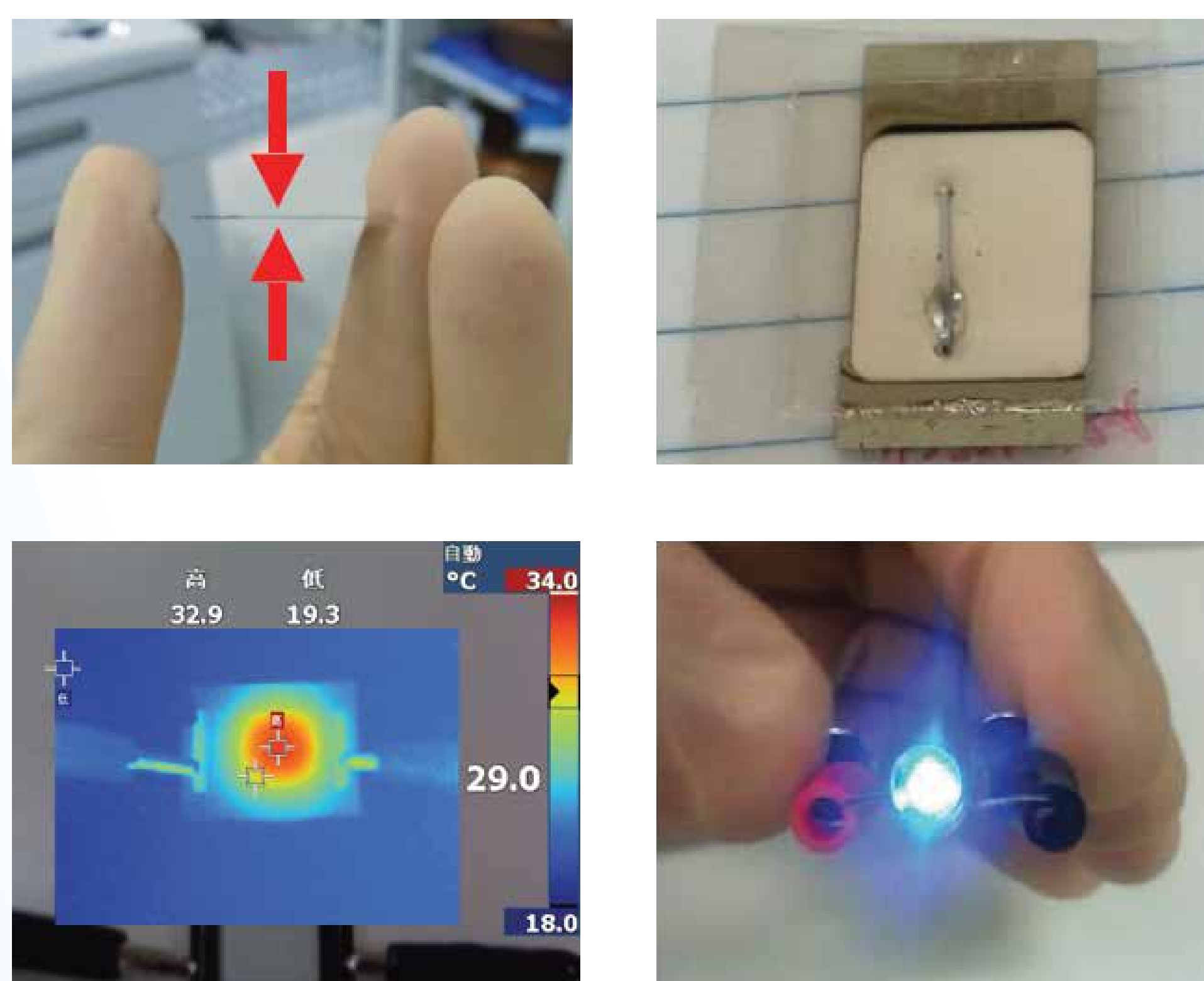
Medical Instruments



IoT Devices

Features

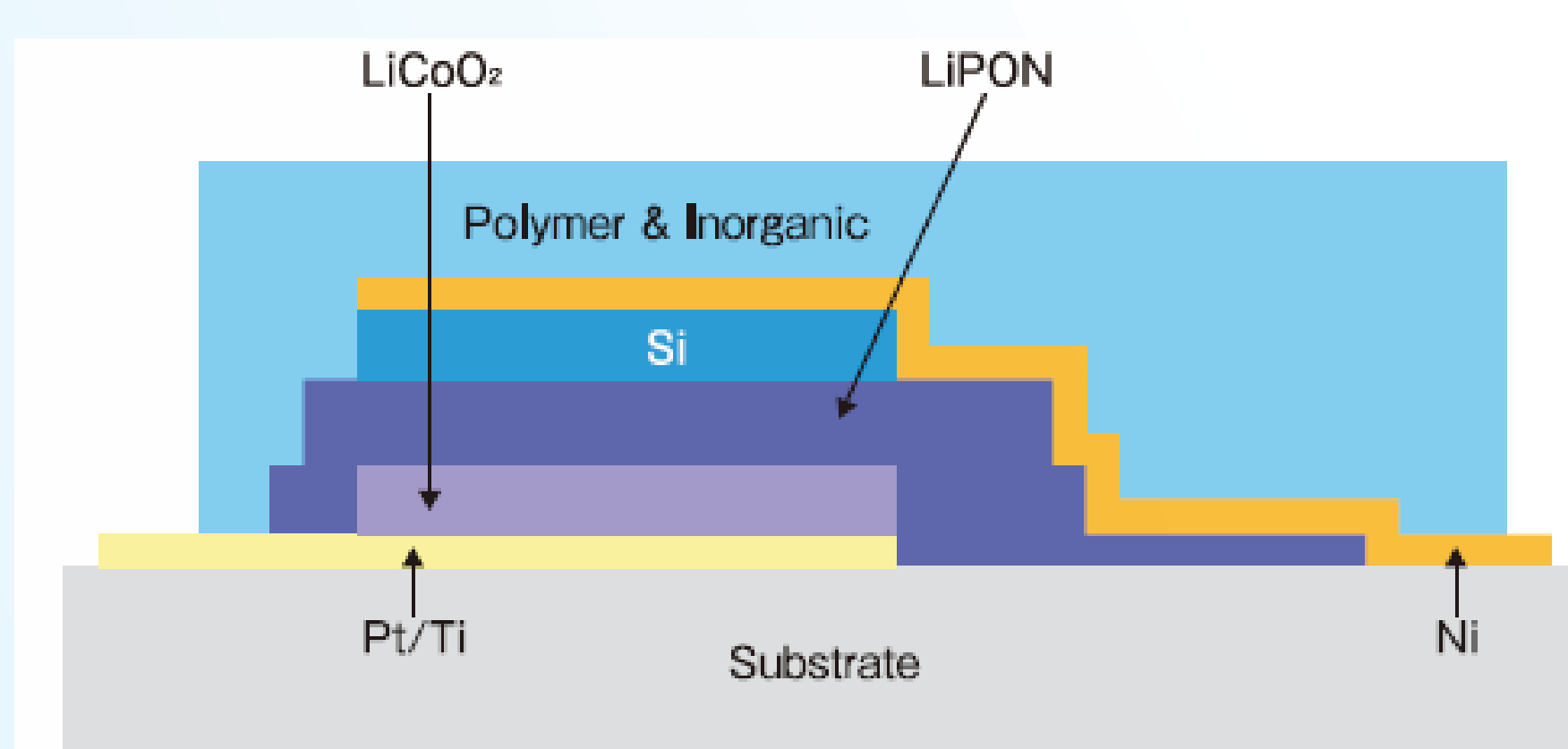
- Lightweight & Slim
- Safe (no liquid leakage, no fire, less heat generation)
- Flexible
- High trust worth (long cycle life, less self-discharge)



Cycling performance of all-solid-state thin-film lithium battery at 100% depth of discharge.

High Temperature Resistance

For High Voltage with Array Battery



Material Melting Point
 Li Melting Point: ~180°C
 Si : ~ 1,400°C



MEMS Element > 10 V

Cross-sectional diagram of thin-film battery compatible with reflow process (up to 250C)

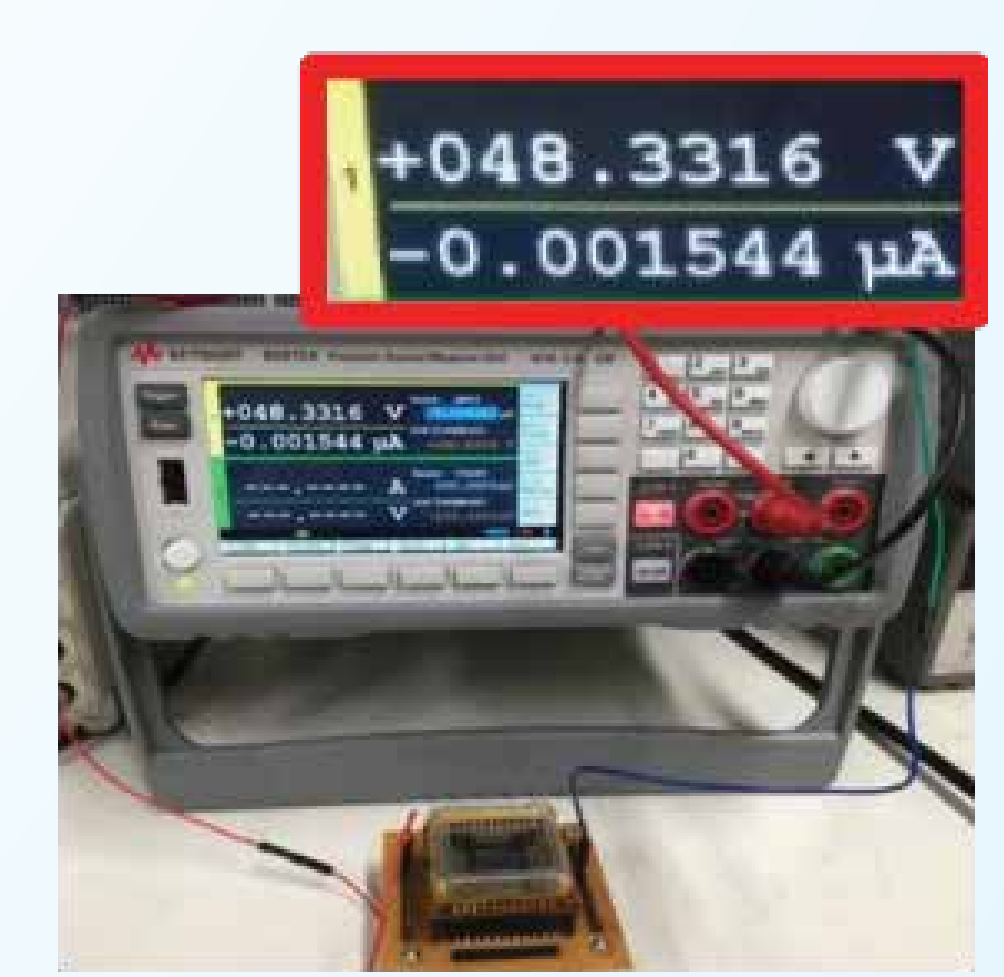
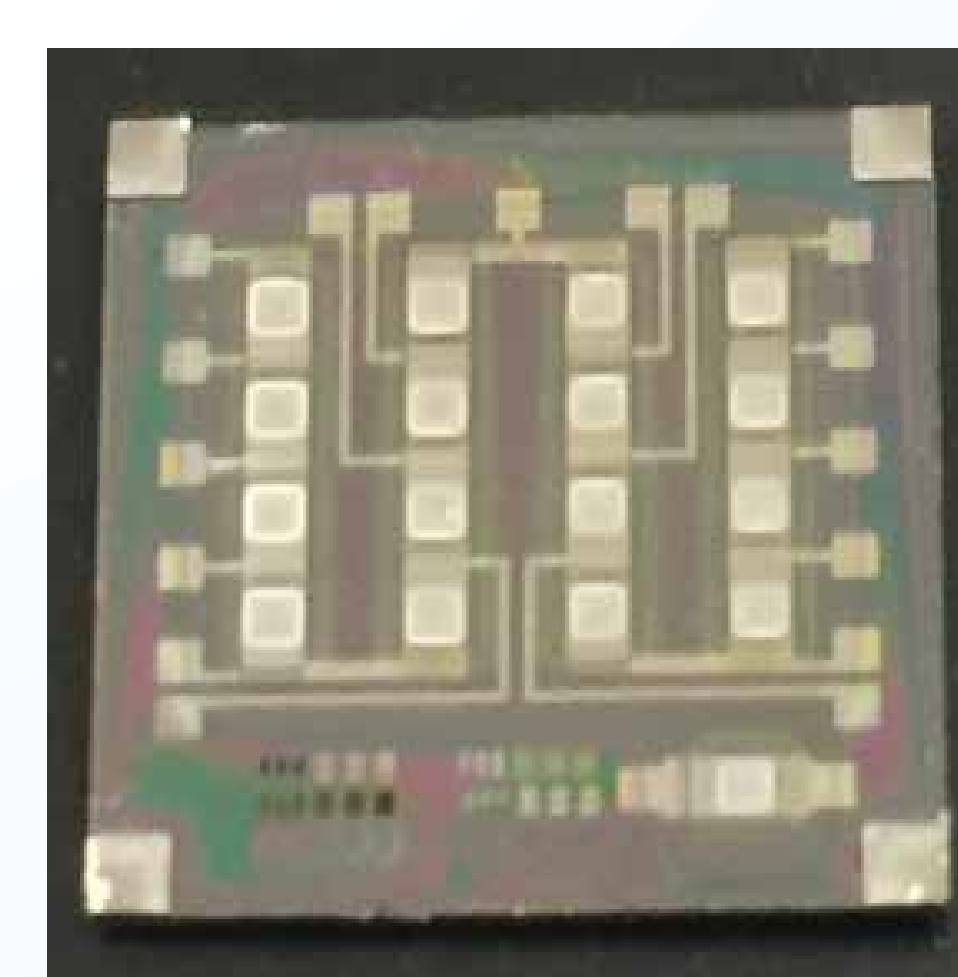
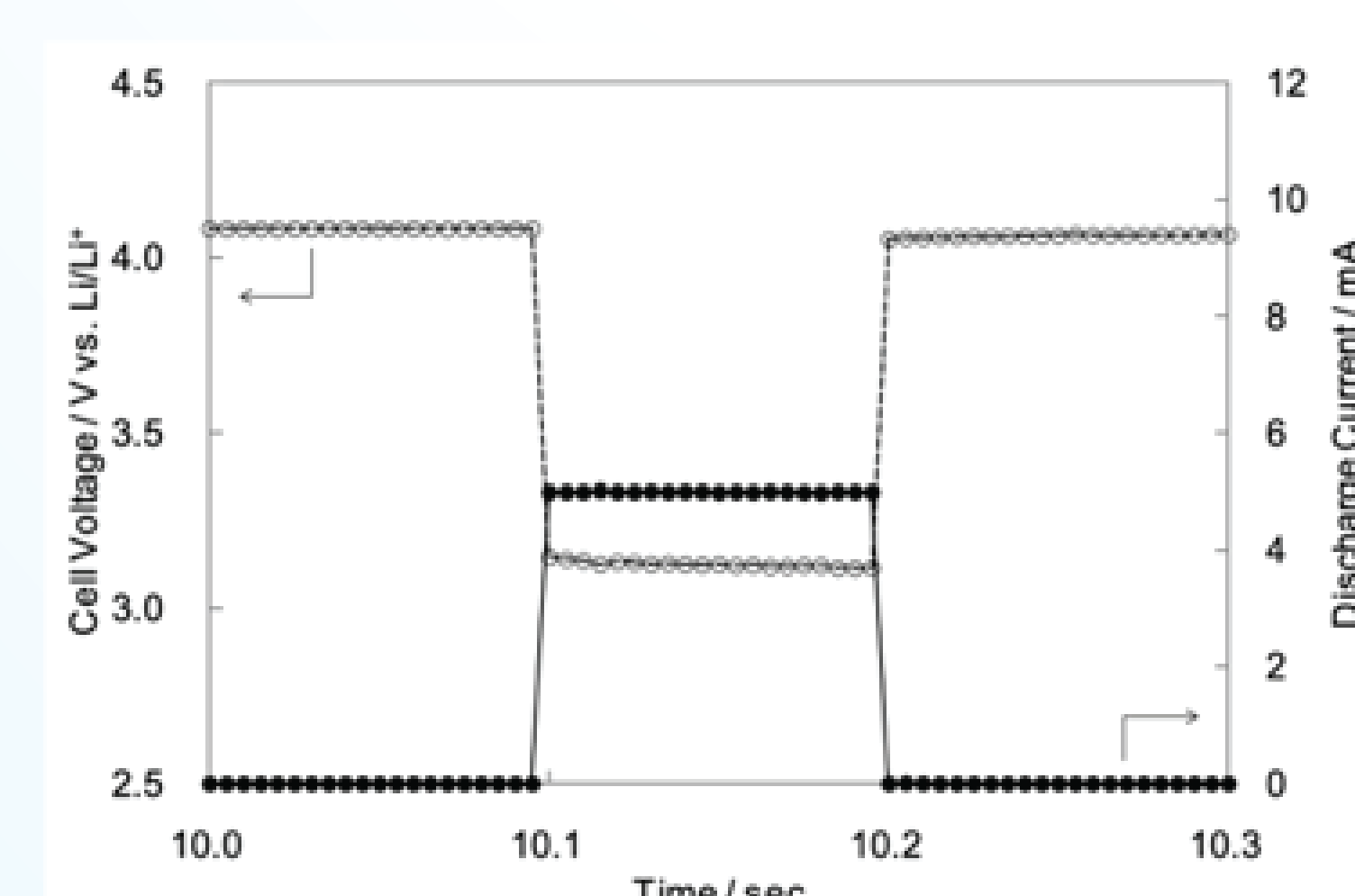
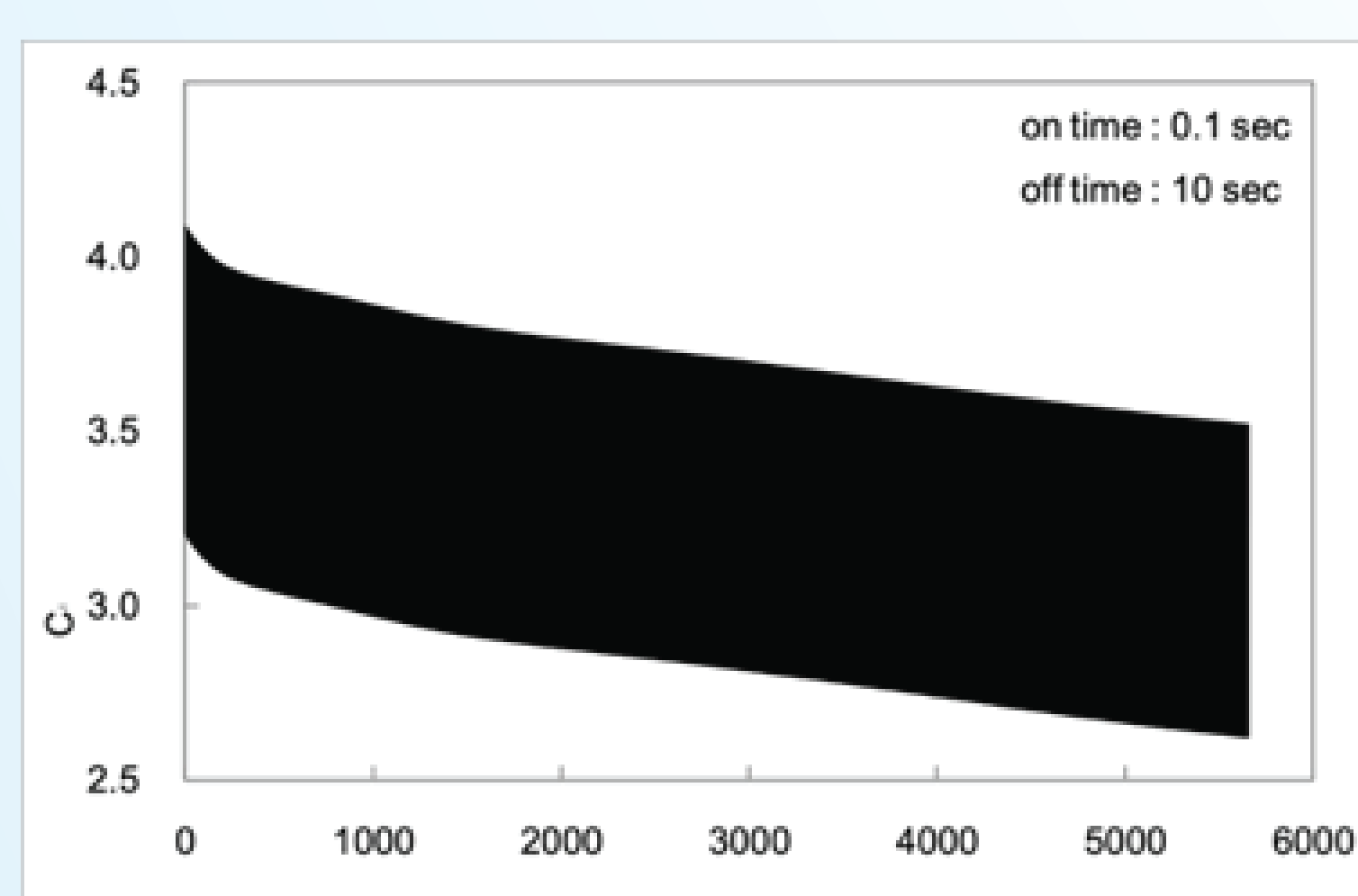


Figure. Pulse discharge characteristics at 5 mA current output.

Fig. Thin film battery in 16 series array battery