Process Platform: Thermal Isolation Devices

- Suitable for thermal isolation devices (Flow, Gas, Temperature, etc.)
- Suspended diaphragm for high-temperature operation (heater > 650°C)
- Integration of Pt heater & RTD or thermopile temperature sensor
- Small sensing area, less than 1.0 mm²
Process Platform: Thermal Isolation Devices

- Layout design comes from customer.
- Fixed process (film stacking and thickness) but adjustable Pt thickness (≤ 2000Å)
- Reliable adhesion layer for Pt to base film & passivation
- Proper film composition with stress balance
- TCR of Pt heater/resistor: 2943 ppm (35°C~95°C)

- TMAH for noble metal
- Modified TMAH for Al-based metal
  (under developing)

- DRIE: through-hole etch
- Sidewall smoothing