

● Feature

- ☑ Endurance: 135°C 4,000h (with ripple)
- ☑ Voltage: 25V_{dc} to 63V_{dc}
- ☑ Capacitance: 100μF to 330μF
- ☑ Size: φ10×12.5L
- ☑ Bias Humidity: 85°C/85%RH 2,000h

● Product Chart

- ☑ Recommended to replace HSD/HSC with HSE

* Lineup for high heat resistance/super low ESR (Radial lead type)

HSD

- 105°C Standard
- 25 to 80v
- 68 to 470μF
- 105°C 10,000h

Since 2017.09

HSC

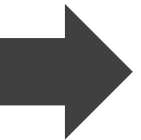
- 125°C Standard
- 25 to 80v
- 56 to 330μF
- 125°C 4,000h

Since 2016.03

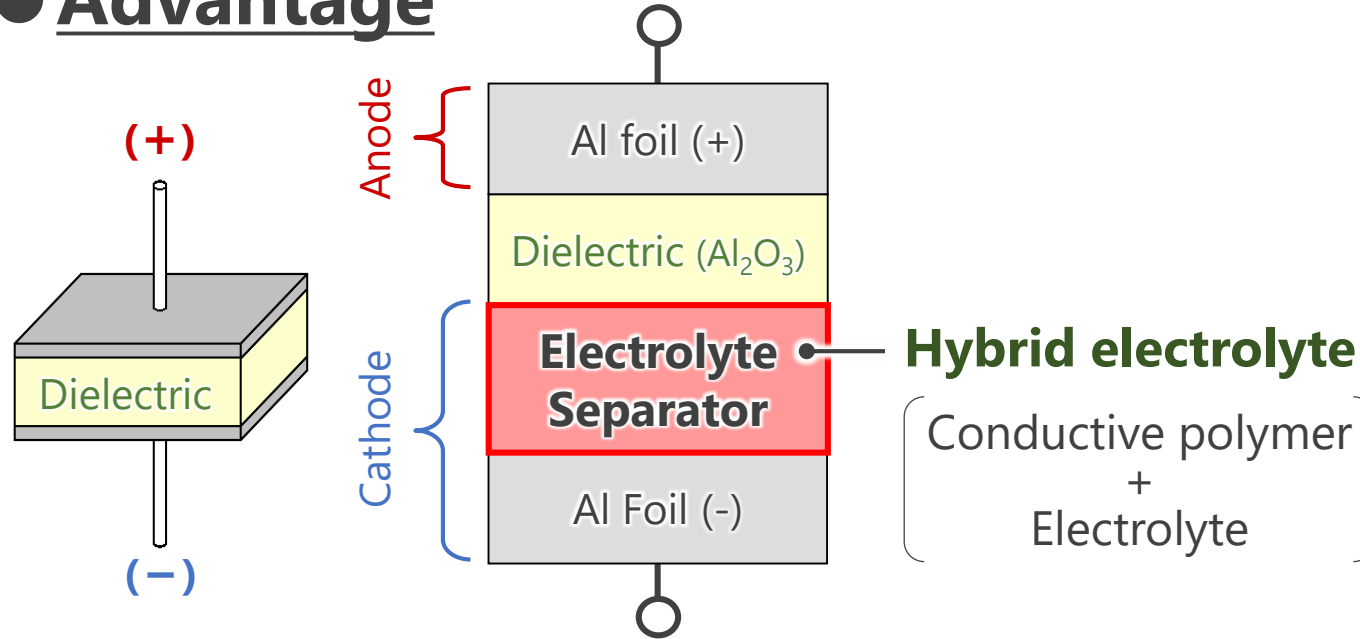
HSE

- 135°C Standard
- Higher Temp / Ripple current
- 85°C / 85%RH 2,000h
- 135°C 4,000h

Since 2018.07



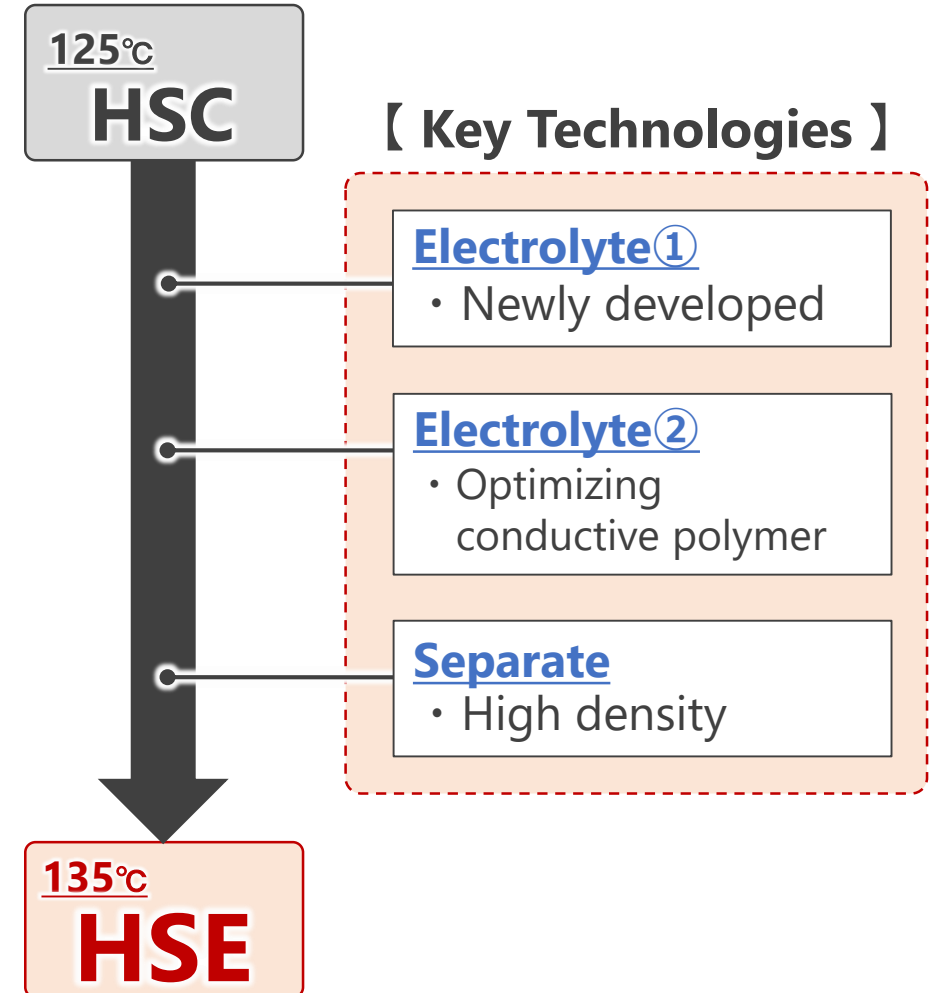
● Advantage



☑ Four advantages of HSE



- ① Super low ESR above 25v
- ② Wear-out failure (Open Circuit & Safety)
- ③ Higher ripple current
- ④ Longer Life

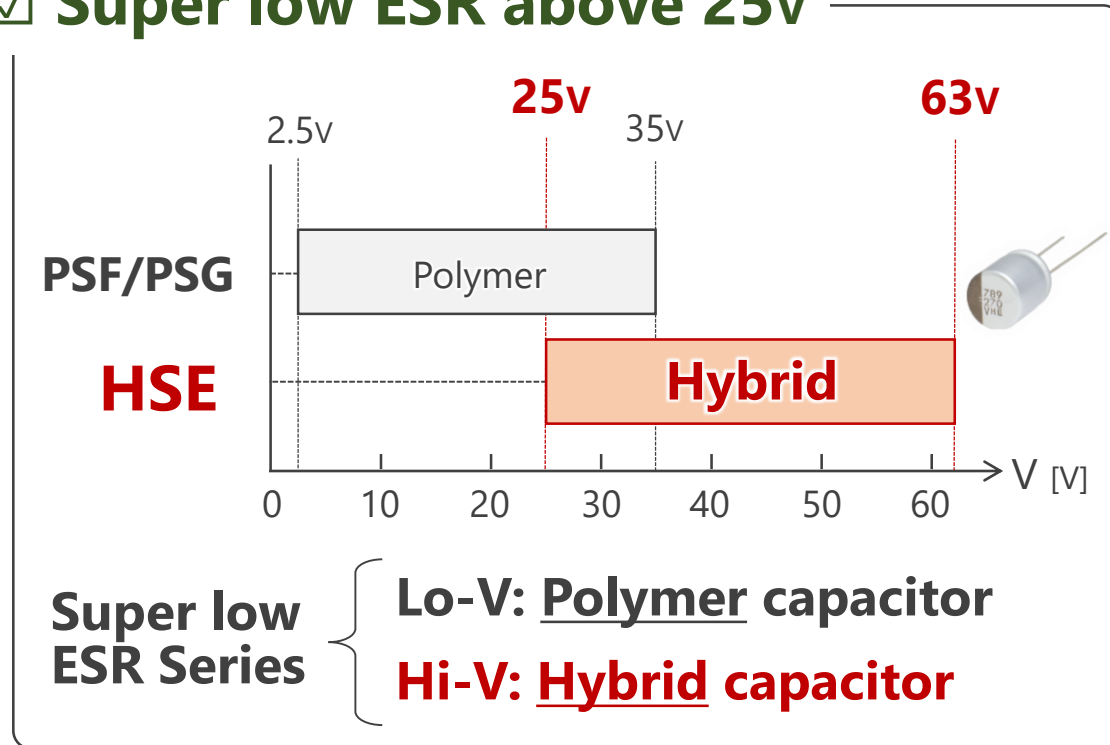


● Benefit/Evidence

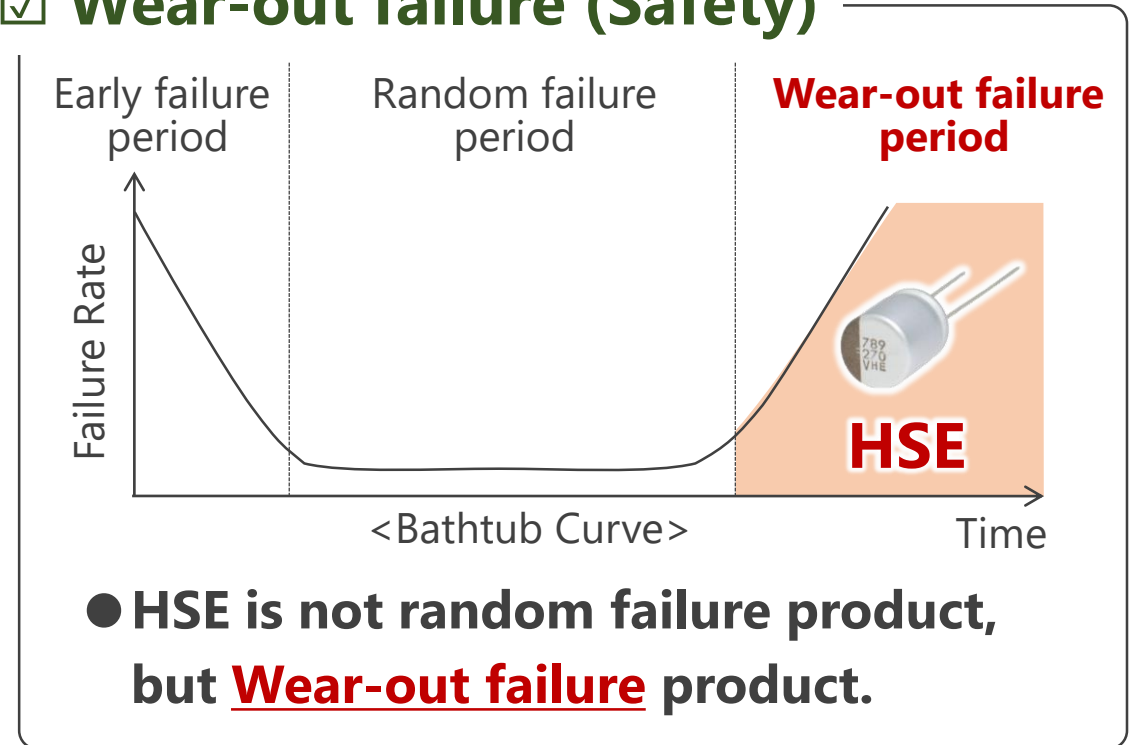
- ➡ ① Super low ESR above 25v / ② Wear-out failure (Open circuit & Safety)
③ Higher ripple current / ④ Longer Life · · Higher power density, Longer equipment life



☑ Super low ESR above 25v



☑ Wear-out failure (Safety)



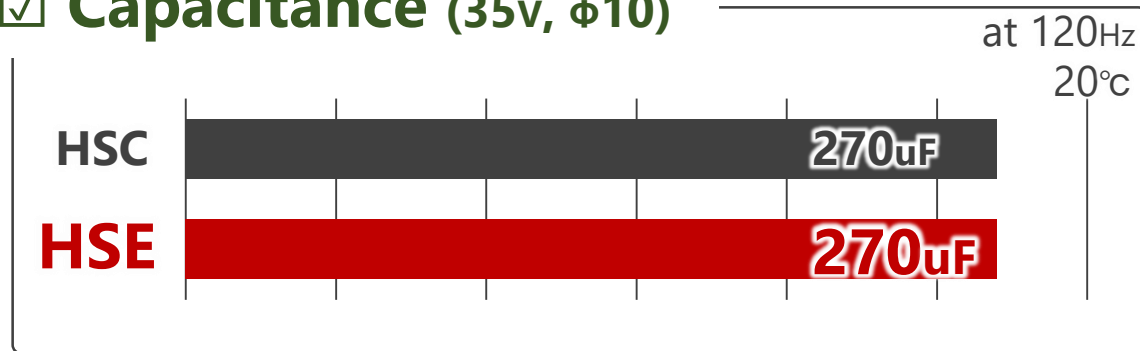
● Benefit/Evidence

① Super low ESR above 25v / ② Wear-out failure (Open circuit & Safety)

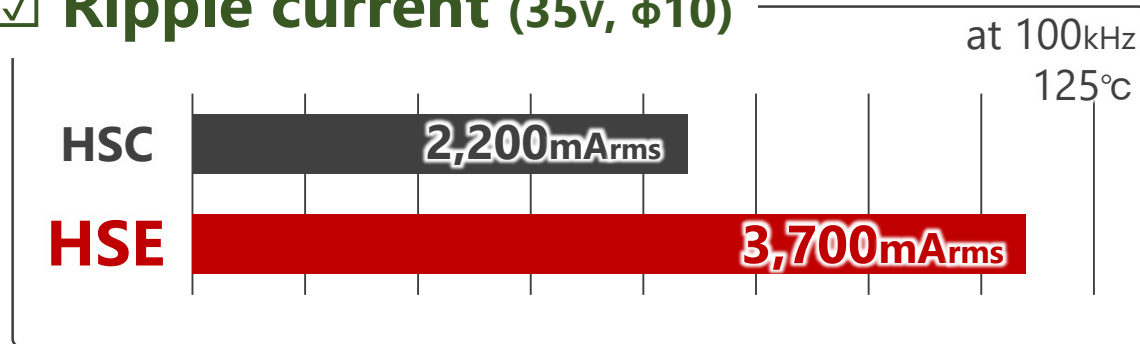
➡ ③ Higher ripple current / ④ Longer Life • • Higher power density, Longer equipment life



☑ Capacitance (35v, $\phi 10$)



☑ Ripple current (35v, $\phi 10$)



☑ Lifetime (35v, $\phi 10$)

