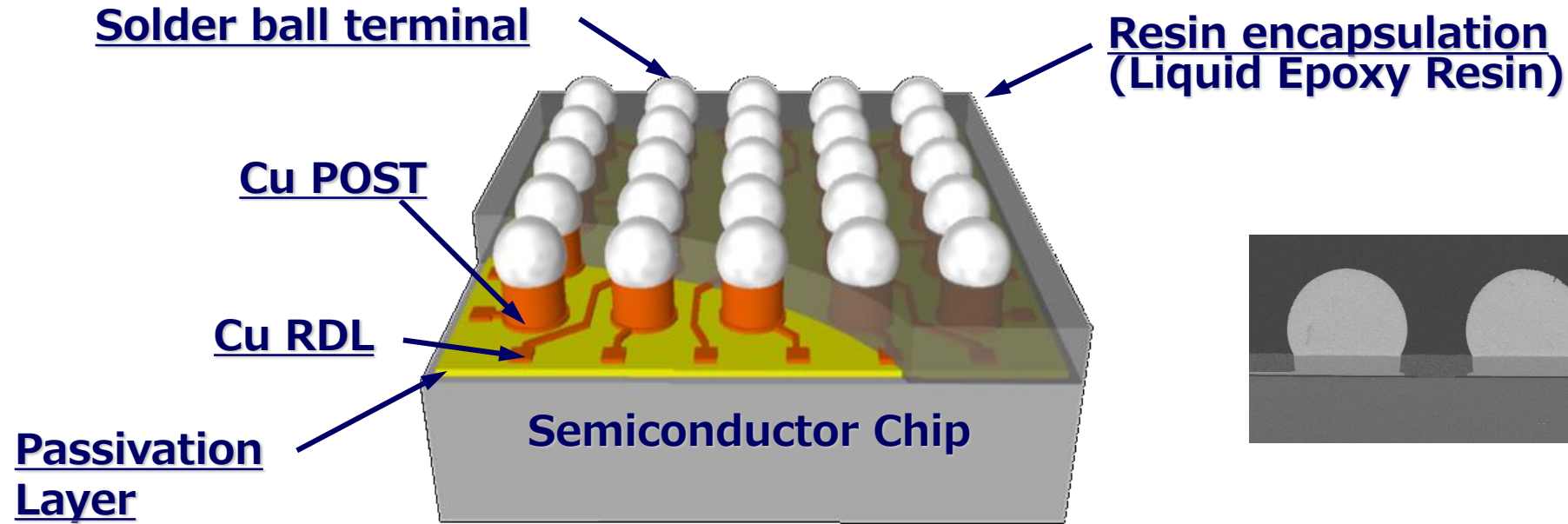


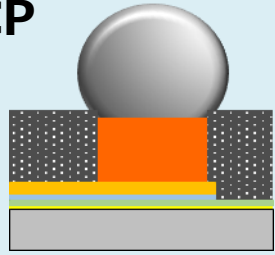
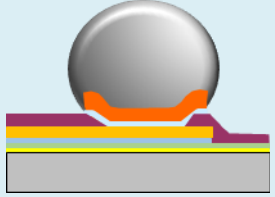
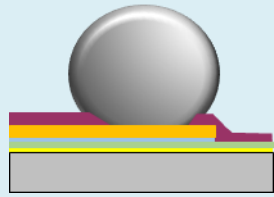
Cu POST WLP Construction and Characteristic



Characteristic (Summary)

- ▶ ① High reliability.
- ▶ ② High current capacity *Under Development*
- ▶ ③ Reduce chipping on Circuit side (Protected by resin)
- ▶ ④ Improve quality for low-k
- ▶ ⑤ Low temperature process
(Damage reduction for insulation film)

Cu POST WLP ① High reliability

Reliability test results	JEDEC Standard	CP 	U 	V 
	Criteria			
Reflow MSL Level1 (85°C85% 168Hr ;Reflow T _p 260°Cx 3times)	Reflow3time S	MSL Level1 (Reflow×10) Pass	MSL Level1 (Reflow×10) Pass	MSL Level1 (Reflow×10) Pass
HTS 150°C	1,000H	2,000H Pass	1,000H Pass	1,000H Pass
PCT 121°C,100%	A:24H D:168H F:336H	500H Pass	168H Pass	168H Pass
T/C -65~150°C		1,000cyc Pass	1,000cyc Pass	1,000cyc Pass
HAST 130°C85% 3.5V	96H	120H Pass	96H Pass	96H Pass
THB 85°C85% 3.5V	TYP 1,000H	2,000H Pass	1,000H Pass	1,000H Pass

* Oume evaluation result