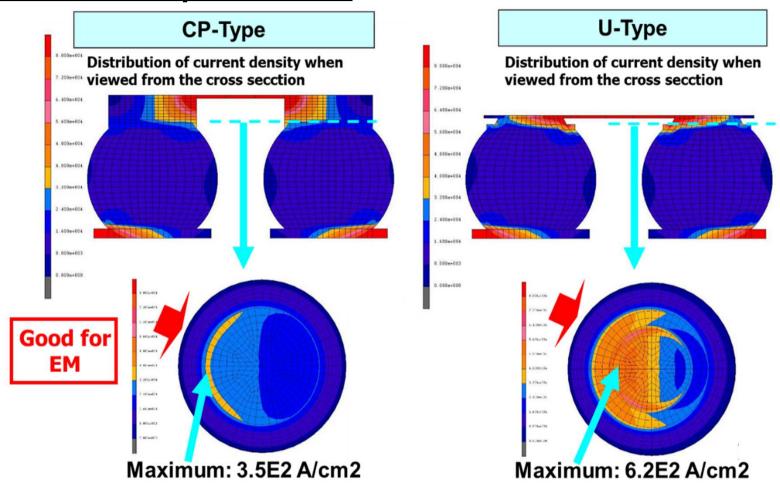
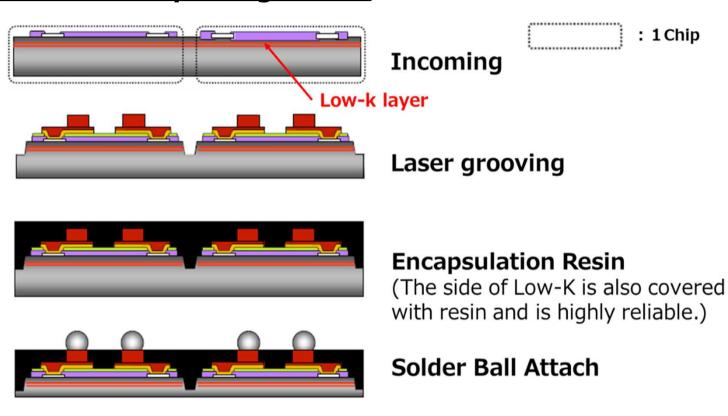
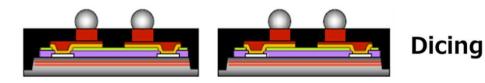
Current density simulation



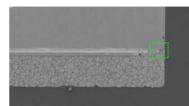
Current density in the solder interface of CP-Type is 56% of U-Type

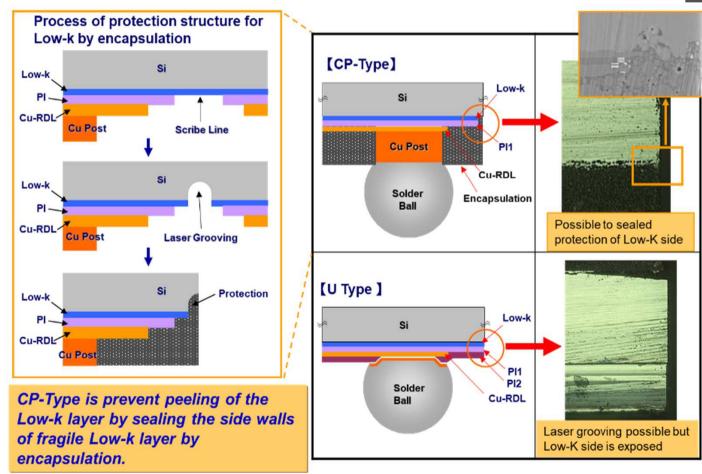
<u>Cross-sectional view</u> <u>when Low-k layer is grooved</u>





<u>Cross-sectional view</u> <u>when Low-k layer is grooved</u>





Reliability results

Test Items	Test condition	N	Test timing	Result	Judgment
				Lot 1	
Reflow	85℃/85% 168hr⇒ >255℃ 30sec. 10X (JEDEC J-STD-020D Moisture Level1)	45	Initial	0/45	- Pass
			After reflow	0/45	
PCT	Pre-condition ⇒ 121°C 100% 168hr	50	Initial	0/50	- Pass
			168hr	0/50	
HTS	Pre-condition ⇒ 150°C、500hr、1000hr	50	Initial	0/50	Pass
			500hr	0/50	
			1000hr	0/50	
тст	Pre-condition \Rightarrow -65°C \sim 150°C \ 500cycle \ 1000cycle	50	Initial	0/50	Pass
			500cycle	0/50	
			1000cycle	0/50	
ТНВ	Pre-condition ⇒ 85°C 85%RH、3.5V 168hr,500hr,1000hr	22	Initial	0/22	- Pass
			168hr	0/22	
			500hr	0/22	
			1000hr	0/22	

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Thank you very much for your understanding in advance.