## Automotive Qualification Plan Summary for 6-SOT\_23 at CARSEM

Test	Specification	Sample Size	EXPECTED COMPLETION DATE
Temperature Cycle (TC)*	JEDEC JESD22-A104	3 x 77	Sept 2018
Solder Heat Resistance (SHR)*	JEDEC/IPC J-STD-020	3 x 11	Sept 2018
High Temperature Storage Test (HTS)	JEDEC JESD22-A103	1 x 77	Sept 2018
Temperature, Humidity and Bias Test (THB)*	JEDEC JESD22-A101	3 x 77	Sept 2018
Unbiased Highly Accelerated Stress Test (UHAST)*	JEDEC JESD22-A118	3 x 77	Sept 2018
Electrostatic Discharge <i>Field</i> Induced Charge Device Model	ANSI/ESDA/JEDEC JS-002	3/voltage	Sept 2018

\* These samples will be subjected to preconditioning (per J-STD-020 Level 3) prior to the start of the stress test. Level 3 preconditioning consists of the following: 1. Bake – 24 hours at 125°C; 2. Soak – unbiased soak for 192 hours at 30°C, 60%RH; 3. Reflow – three passes through a reflow oven with a peak temperature of 260°C. TC samples will be subjected to wire-pull test after 500 cycles where results should be within specification limits.

## Qualification Plan Summary for SOT at CARSEM

Test	SPECIFICATION	SAMPLE Size	EXPECTED Completion Date
Temperature Cycle (TC)*	JEDEC JESD22-A104	3 x 77	Sept 2018
Solder Heat Resistance (SHR)*	JEDEC/IPC J-STD-020	3 x 11	Sept 2018
Temperature, Humidity and Bias Test (THB)*	JEDEC JESD22-A101	3 x 77	Sept 2018
High Temperature Storage (HTS)	JEDEC JESD22-A103	1 x 77	Sept 2018
Electrostatic Discharge <i>Field</i> Induced Charge Device Model	ANSI/ESDA/JEDEC JS- 002-2014	3/voltage	Sept 2018

\* Preconditioned per JEDEEC/IPC J-STD0020.

## PCN 18\_0064

PCN Title: Bump Site Transfer and Qualification of Select 6L and 8L SOT23 Flip Chip on Lead Packages

Change Items	From	То
Bumping Site	Amkor Taiwan (AT5)	Chipbond, Taiwan (CB4)
Die Level Bumping	High Lead Bumping	Cu Pillar/SnAg Bumping
Assembly	High Lead bumped die Flip	Cu Pillar/SnAg bumped die
	Chip on Lead assembly with	Flip Chip on Lead assembly
	Solder Screen Printing on	process where the Solder
	leadframe step before Flip	Screen Printing on leadframe
	Chip attachment on	step is replaced with Flux Dip
	leadframe	step before Flip Chip
		attachment on the leadframe