



FINAL PRODUCT/PROCESS CHANGE NOTIFICATION #16741

Issue Date: 26-Oct-2011

TITLE: Qualification of Serial SPI EEPROM devices CAT25010, CAT25020 and CAT25040 for fabrication at ON Semiconductor's Gresham, Oregon Wafer Fab.

PROPOSED FIRST SHIP DATE: 01-Feb-2012

AFFECTED CHANGE CATEGORY(S): CAT25010, CAT25020 and CAT25040 (all Packages, all Temperatures)

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

Contact your local ON Semiconductor Sales Office or Denisa Stefan <denisa.stefan@onsemi.com>

SAMPLES: Samples available per "Affected Device List" table on Page 5
Contact your local ON Semiconductor Sales Office

ADDITIONAL RELIABILITY DATA: Available

Contact your local ON Semiconductor Sales Office or Tony Luciani <tony.luciani@onsemi.com>

NOTIFICATION TYPE:

Final Product/Process Change Notification (FPCN)

Final change notification sent to customers. FPCNs are issued at least 90 days prior to implementation of the change.

ON Semiconductor will consider this change approved unless specific conditions of acceptance are provided in writing within 30 days of receipt of this notice. To do so, contact <quality@onsemi.com>.

DESCRIPTION AND PURPOSE:

ON Semiconductor is pleased to announce that, as part of its ongoing effort to improve product availability, the Serial SPI EEPROM devices CAT25010, CAT25020 and CAT25040 are now qualified for production in the 0.35 μ m CMOS EE process at ON Semiconductor's 8-inch Wafer Fab in Gresham, Oregon, USA. The Gresham Wafer Fab is ISO9001:2008, ISO/TS16949:2009 and ISO14001:2004 certified. Wafers for these devices will also continue to be supplied by our foundry partner OKI Semiconductor, Japan from a 6-inch line running a 0.35 μ m CMOS EE process.

This will provide increased die capacity, improved product performance (higher speed) while maintaining 100% backward compatibility to the previous CAT25xxx die revisions.

This notification and acceptance thereof, allows for the use of either Gresham or OKI die in future shipments under the same OPN.



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RELIABILITY DATA SUMMARY:

QTP: 10005, CAT25640 Rev F, CAT25160/080 Rev D, CAT25040/20/10 Rev E, Gresham 0.35um

Product	Qual Lot Number	Assy Lot	Wfr Lot
CAT25640	lot 1	STMICRO026313A	GAM02932 #17
CAT25160	lot 2	EBR031235	GAM28938.1 w17
CAT25080	lot 3	EBR031303	GAM28938.5 w8
CAT25040	lot 4	EBR033584	GAM42952.1_23
CAT25020	lot 5	EBR033654	GAM42852.6_16
CAT25010	lot 6	EBR033590	GAM42952.7_8
CAT24C64	lot 7	WE024548ACA	GAL26919# 21
CAT24C64	lot 8		GAL26919 #23

Notes:

1) Note: STMICROXXXXXX is the conventional name for the lots assembled at STAR Microelectronics Thailand.

		Package	Lot Number	Samples	168hrs	408hrs	1000hrs		
HTOL High Temp Op Life	408hrs, 150C release Per JA108 Cycling Precon to 100k	SOIC	lot 1	77	PASS	PASS	PASS		
			lot 2	77	PASS	PASS	PASS		
			lot 3	77	PASS	PASS	PASS		
			lot 4	77	PASS	PASS	PASS		
			lot 5	77	PASS	PASS	PASS		
			lot 6	77	PASS	PASS	PASS		
			lot 7	77	PASS	PASS	PASS		
		Package	Lot Number	Samples	24hrs				
ELFR Early Life Failure Rate	Per AEC-Q100-008 HTOL conditions, 24hrs, 150C	SOIC	lot 1	800	PASS				
			lot 2	800	PASS				
			lot 3	800	PASS				
			lot 4	800	PASS				
			lot 5	800	PASS				
			lot 6	800	PASS				
			lot 7	800	PASS				
		Package	Lot Number	Samples	100k	200k	300k	400k	500k
EDR Per JESD22-A103/Q100-005 Room/Hot test before and after	NVM Endurance 1M Cycles	SOIC	lot 1	77	PASS	PASS	PASS	PASS	PASS
			lot 2	77	PASS	PASS	PASS	PASS	PASS
			lot 3	77	PASS	PASS	PASS	PASS	PASS
			lot 4	77	PASS	PASS	PASS	PASS	PASS
			lot 5	77	PASS	PASS	PASS	PASS	PASS
			lot 6	77	PASS	PASS	PASS	PASS	PASS
			lot 7	77	PASS	PASS	PASS	PASS	PASS
		Package	Lot Number	Samples	600k	700k	800k	900k	1M
		SOIC	lot 1	77	PASS	PASS	PASS	PASS	PASS
			lot 2	77	PASS	PASS	PASS	PASS	PASS
			lot 3	77	PASS	PASS	PASS	PASS	PASS
			lot 4	77	PASS	PASS	PASS	PASS	PASS
			lot 5	77	PASS	PASS	PASS	PASS	PASS
			lot 6	77	PASS	PASS	PASS	PASS	PASS
	lot 7		77	PASS	PASS	PASS	PASS	PASS	
	Wafer Level 1M Cycles	Wafer	Lot Number	Samples	1 M				
lot 8			77	PASS					



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RELIABILITY DATA – QTP 10005 – Cont'd

EDR	NVM Data Retention	Data	Lot Number	Samples	168hrs	336hrs	500hrs	1000hrs
Per Q100-005 Room/Hot test before and after	Package Level 1000hrs, 150C Cycling Precon to 100k	"00"	lot 1	77	PASS	PASS	PASS	PASS
			lot 2	77	PASS	PASS	PASS	PASS
			lot 3	77	PASS	PASS	PASS	PASS
			lot 4	77	PASS	PASS	PASS	PASS
			lot 5	77	PASS	PASS	PASS	PASS
			lot 6	77	PASS	PASS	PASS	PASS
			lot 7	77	PASS	PASS	PASS	PASS
		"FF"	lot 1	77	PASS	PASS	PASS	PASS
			lot 2	77	PASS	PASS	PASS	PASS
			lot 3	77	PASS	PASS	PASS	PASS
			lot 4	77	PASS	PASS	PASS	PASS
			lot 5	77	PASS	PASS	PASS	PASS
			lot 6	77	PASS	PASS	PASS	PASS
			lot 7	77	PASS	PASS	PASS	PASS
	Wafer Level Bake at 225C, 100hrs Endurance Preconditioning: 500k Cycles	Data	Lot Number	Samples	100hrs			
		"00"						
		Wafer lot 8	77	PASS				
		"FF"						
		Wafer lot 8	77	PASS				
		Package	Lot Number	ss	500V	1000V	1500V	2000V
ESD AEC Q100-002	Human Body Model	SOIC	lot 1	5/level	PASS	PASS	PASS	PASS
			lot 2	5/level	PASS	PASS	PASS	PASS
			lot 3	5/level	PASS	PASS	PASS	PASS
			lot 4	5/level	PASS	PASS	PASS	PASS
			lot 5	5/level	PASS	PASS	PASS	PASS
			lot 6	5/level	PASS	PASS	PASS	PASS
			lot 7	5/level	PASS	PASS	PASS	PASS
		Package	Lot Number	ss	2500V	3000V	3500v	4000v
		SOIC	lot 1	5/level	PASS	PASS	PASS	PASS
			lot 2	5/level	PASS	PASS	PASS	PASS
			lot 3	5/level	PASS	PASS	PASS	PASS
			lot 4	5/level	PASS	PASS	PASS	PASS
			lot 5	5/level	PASS	PASS	PASS	PASS
			lot 6	5/level	PASS	PASS	PASS	PASS
			lot 7	5/level	PASS	PASS	PASS	PASS
		Package	Lot Number	ss	50V	100V	150V	200V
ESD AEC Q100-003	Machine Model	SOIC	lot 1	5/level	PASS	PASS	PASS	PASS
			lot 2	5/level	PASS	PASS	PASS	PASS
			lot 3	5/level	PASS	PASS	PASS	PASS
			lot 4	5/level	PASS	PASS	PASS	PASS
			lot 5	5/level	PASS	PASS	PASS	PASS
			lot 6	5/level	PASS	PASS	PASS	PASS
			lot 7	5/level	PASS	PASS	PASS	PASS
		Package	Lot Number	ss	100ma			
LU (1 x 6)	Latch Up per AEC-Q100-004 Room / Hot testing after LU test	SOIC			25C	125C		
			lot 1	6	PASS	PASS		
			lot 2	6	PASS	PASS		
			lot 3	6	PASS	PASS		
			lot 4	6	PASS	PASS		
			lot 5	6	PASS	PASS		
			lot 6	6	PASS	PASS		
		lot 7	6	PASS	PASS			



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RELIABILITY DATA – QTP 10005 – Cont'd

	Package	Lot Number	ss	Result	
CHAR Characterization Per AEC-Q003	SOIC	lot 1	30	PASS	
		lot 2	30	PASS	
		lot 3	30	PASS	
		lot 4	30	PASS	
		lot 5	30	PASS	
		lot 6	30	PASS	
		lot 7	30	PASS	

ELECTRICAL CHARACTERISTIC SUMMARY:

Gresham die are 100% compatible to the corresponding OKI die in the sense of meeting existing data sheet specifications.

The data sheet is available at: http://www.onsemi.com/pub_link/Collateral/CAT25040-D.PDF

A detailed characterization report for each product is available upon request.

CHANGED PART IDENTIFICATION:

While both Gresham and OKI die will be offered under the same OPN, new package marking will be used only for Gresham die, with OKI die marking continuing unchanged. The Gresham die marking reflects the integration of former CSI (Catalyst) into ON Semiconductor, and provides for easier identification of device and die revision, especially for smaller packages with less room for marking.

Die origin will also be identified on the packaging box label by the 2-digit wafer fabrication country code of CS: US for Gresham and CS: Japan for OKI.

The top package marking format for the new Gresham die versus current marking for the OKI die is shown in the [Appendix](#).



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List of Affected General Parts:

Part Number (OPN)	Samples Availability
CAT25010VI-GT3	Now
CAT25010VI-G	Now
CAT25010YI-GT3	Now
CAT25010YI-G	Now
CAT25010YI-GT3D	Now
CAT25010VE-GT3	Now
CAT25010VE-GT3D	Now
CAT25010YE-GT3	Now
CAT25010VP2I-GT3	Now
CAT25010HU4I-GT3	Now
CAT25010VP2E-GT3	Now
CAT25010HU4E-GT3	Now
CAT25010LI-G	11/30/2011
CAT25010LE-G	11/30/2011
CAT25010ZI-GT3	11/30/2011
CAT25010ZE-GT3	11/30/2011
CAT25020VI-GT3	Now
CAT25020VI-G	Now
CAT25020YI-GT3	Now
CAT25020YI-G	Now
CAT25020VE-GT3	Now
CAT25020YE-GT3	Now
CAT25020VP2I-GT3	Now
CAT25020HU4I-GT3	Now
CAT25020VP2E-GT3	Now
CAT25020HU4E-GT3	Now
CAT25020LI-G	11/30/2011
CAT25020LE-G	11/30/2011
CAT25020ZI-GT3	11/30/2011
CAT25020ZE-GT3	11/30/2011

Part Number (OPN)	Samples Availability
CAT25040VI-GT3	Now
CAT25040VI-G	Now
CAT25040YI-GT3	Now
CAT25040YI-G	Now
CAT25040VE-GT3	Now
CAT25040YE-GT3	Now
CAT25040ZI-GT3	Now
CAT25040ZE-GT3	Now
CAT25040VP2I-GT3	Now
CAT25040VP2E-GT3	Now
CAT25040LI-G	11/30/2011
CAT25040LE-G	11/30/2011
CAT25040HU4I-GT3	11/30/2011
CAT25040HU4E-GT3	11/30/2011



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Appendix – PART IDENTIFICATION

Package Marking – Gresham die versus actual OKI die

MARKING COMPARISON FOR CAT25010	
Current OKI Die	New GRESHAM Die
CAT25010 SOIC-8(V)	
<p>1: Assembly Location Code</p> <p>2: Lead Finish (NiPdAu)</p> <p>3: Product Revision</p> <p>4-9: Product Code</p> <p>10: Temp Range</p> <p>11: Production Year</p> <p>12: Production Month</p> <p>13-16: Assembly Lot Number</p>	<p>1-5: Product Code</p> <p>6: Product Revision</p> <p>7: Assembly Location Code</p> <p>8: Production Year</p> <p>9: Production Month</p> <p>10-12: Assembly Lot Number</p> <p>•: Pb-free microdot</p>
CAT25010 TSSOP-8(Y)	
<p>1-3: Product Code</p> <p>4: Assembly Location Code</p> <p>5: Lead Finish (NiPdAu)</p> <p>6: Production Year</p> <p>7: Production Month</p> <p>8-10: Assembly Lot Number</p>	<p>1-3: Product Code</p> <p>4: Product Revision</p> <p>5: Assembly Location Code</p> <p>6: Production Year</p> <p>7: Production Month</p> <p>8-10: Assembly Lot Number</p> <p>•: Pb-free microdot</p>



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Current OKI Die	New Gresham Die
CAT25010 PDIP-8(L)	
<p>1: Assembly Location Code 2: Lead Finish (NiPdAu) 3: Product Revision 4-9: Product Code 10: Temp Range 11: Production Year 12: Production Month 13-16: Assembly Lot Number</p>	<p>1-5: Product Code 6: Product Revision 7: Assembly Location Code 8-10: Assembly Lot Number 11-12: Production Year 13-14: Production Week 15: Pb-free designator</p>
CAT25010 TDFN-8(VP2)	
<p>1-2: Device code 3: Assembly location code 4-6: Assembly Lot Number 7: Production Year 8: Production Month</p>	<p>1-3: Product Code 4: Assembly Location Code 5-6: Assembly Lot Number 7: Production Year 8: Production Month ●: Pb-free microdot</p>



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Current OKI Die	New Gresham Die
CAT25010 UDFN-8(HU4)	
<p>Not existing</p>	<p>1-3: Product Code 4: Assembly Location Code 5-6: Assembly Lot Number 7: Production Year 8: Production Month ●: Pb-free microdot</p>
CAT25010 MSOP-8(Z)	
<p>1-4: Product Code 5: Production Year 6: Production Month 7: Product Revision</p>	<p>1-2: Product Code 3: Production Year 4: Production Month 5: Assembly Location Code 6-7: Assembly Lot Number ●: Pb-free microdot</p>
<p>Backside Marking</p> <p>as indicated here below: 1: Assembly Location Code 2-4: Assembly Lot Number 5-8: Not used</p>	



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MARKING COMPARISON FOR CAT25020															
Current OKI Die								New GRESHAM Die							
CAT25020 SOIC-8(V)															
<p>1: Assembly Location Code 2: Lead Finish (NiPdAu) 3: Product Revision 4-9: Product Code 10: Temp Range 11: Production Year 12: Production Month 13-16: Assembly Lot Number</p>								<p>1-5: Product Code 6: Product Revision 7: Assembly Location Code 8: Production Year 9: Production Month 10-12: Assembly Lot Number •: Pb-free microdot</p>							
CAT25020 TSSOP-8(Y)															
<p>1-3: Product Code 4: Assembly Location Code 5: Lead Finish (NiPdAu) 6: Production Year 7: Production Month 8-10: Assembly Lot Number</p>								<p>1-3: Product Code 4: Product Revision 5: Assembly Location Code 6: Production Year 7: Production Month 8-10: Assembly Lot Number •: Pb-free microdot</p>							



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Current OKI Die	New Gresham Die
CAT25020 PDIP-8(L)	
<p>1: Assembly Location Code 2: Lead Finish (NiPdAu) 3: Product Revision 4-9: Product Code 10: Temp Range 11: Production Year 12: Production Month 13-16: Assembly Lot Number</p>	<p>1-5: Product Code 6: Product Revision 7: Assembly Location Code 8-10: Assembly Lot Number 11-12: Production Year 13-14: Production Week 15: Pb-free designator</p>
CAT25020 TDFN-8(VP2)	
<p>1-2: Device code 3: Assembly location code 4-6: Assembly Lot Number 7: Production Year 8: Production Month</p>	<p>1-3: Product Code 4: Assembly Location Code 5-6: Assembly Lot Number 7: Production Year 8: Production Month ●: Pb-free microdot</p>



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Current OKI Die	New Gresham Die
CAT25020 UDFN-8(HU4)	
<p>Not existing</p>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="display: flex; justify-content: space-around; width: 100%;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">S 1</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">1 2</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">U 3</div> </div> <div style="display: flex; justify-content: space-around; width: 100%; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">4</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">5</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">6</div> </div> <div style="display: flex; justify-content: space-around; width: 100%; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">7</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">8</div> </div> <div style="margin-top: 10px;"> </div> </div> <div style="margin-top: 20px;"> <p>1-3: Product Code 4: Assembly Location Code 5-6: Assembly Lot Number 7: Production Year 8: Production Month •: Pb-free microdot</p> </div>
CAT25020 MSOP-8(Z)	
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="display: flex; justify-content: space-around; width: 100%;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">A 1</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">B 2</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">U 3</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">L 4</div> </div> <div style="display: flex; justify-content: space-around; width: 100%; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">5</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">6</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">D 7</div> </div> </div> <div style="margin-top: 20px;"> <p>1-4: Product Code 5: Production Year 6: Production Month 7: Product Revision</p> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="display: flex; justify-content: space-around; width: 100%;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">S 1</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">2</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">3</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">4</div> </div> <div style="display: flex; justify-content: space-around; width: 100%; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">5</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">6</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">7</div> </div> </div> <div style="margin-top: 20px;"> <p>1-2: Product Code 3: Production Year 4: Production Month 5: Assembly Location Code 6-7: Assembly Lot Number •: Pb-free microdot</p> </div>
<div style="display: flex;"> <div style="flex: 1;"> <p>Backside Marking</p> </div> <div style="flex: 1; padding-left: 20px;"> <p>1: Assembly Location Code 2-4: Assembly Lot Number 5-8: Not used</p> </div> </div>	



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MARKING COMPARISON FOR CAT25040															
Current OKI Die								New GRESHAM Die							
CAT25040 SOIC-8(V)															
<div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div><div>11</div><div>12</div><div>13</div><div>14</div><div>15</div><div>16</div></div>								<div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div><div>11</div><div>12</div></div>							
<div><div>1: Assembly Location Code</div><div>2: Lead Finish (NiPdAu)</div><div>3: Product Revision</div><div>4-9: Product Code</div><div>10: Temp Range</div><div>11: Production Year</div><div>12: Production Month</div><div>13-16: Assembly Lot Number</div></div>								<div><div>1-5: Product Code</div><div>6: Product Revision</div><div>7: Assembly Location Code</div><div>8: Production Year</div><div>9: Production Month</div><div>10-12: Assembly Lot Number</div><div>•: Pb-free microdot</div></div>							
CAT25040 TSSOP-8(Y)															
<div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div></div>								<div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div></div>							
<div><div>1-3: Product Code</div><div>4: Assembly Location Code</div><div>5: Lead Finish (NiPdAu)</div><div>6: Production Year</div><div>7: Production Month</div><div>8-10: Assembly Lot Number</div></div>								<div><div>1-3: Product Code</div><div>4: Product Revision</div><div>5: Assembly Location Code</div><div>6: Production Year</div><div>7: Production Month</div><div>8-10: Assembly Lot Number</div><div>•: Pb-free microdot</div></div>							



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Current OKI Die	New Gresham Die
CAT25040 PDIP-8(L)	
<p>1: Assembly Location Code 2: Lead Finish (NiPdAu) 3: Product Revision 4-9: Product Code 10: Temp Range 11: Production Year 12: Production Month 13-16: Assembly Lot Number</p>	<p>1-5: Product Code 6: Product Revision 7: Assembly Location Code 8-10: Assembly Lot Number 11-12: Production Year 13-14: Production Week 15: Pb-free designator</p>
CAT25040 TDFN-8(VP2)	
<p>1-2: Device code 3: Assembly location code 4-6: Assembly Lot Number 7: Production Year 8: Production Month</p>	<p>1-3: Product Code 4: Assembly Location Code 5-6: Assembly Lot Number 7: Production Year 8: Production Month ●: Pb-free microdot</p>



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Current OKI Die	New Gresham Die
Not existing	<p style="text-align: center;">CAT25040 UDFN-8(HU4)</p> <div style="text-align: center;"> <div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">S 1</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">2 2</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">U 3</div> </div> <div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">4</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">5</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">6</div> </div> <div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">7</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">8</div> </div> <div style="text-align: center; margin-top: 5px;">●</div> <p style="font-size: small;"> 1-3: Product Code 4: Assembly Location Code 5-6: Assembly Lot Number 7: Production Year 8: Production Month ●: Pb-free microdot </p> </div>
Not in use	<p style="text-align: center;">CAT25040 MSOP-8(Z)</p> <div style="text-align: center;"> <div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">S 1</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">2 2</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">3</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">4</div> </div> <div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">5</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">6</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">7</div> </div> <div style="text-align: center; margin-top: 5px;">●</div> <p style="font-size: small;"> 1-2: Product Code 3: Production Year 4: Production Month 5: Assembly Location Code 6-7: Assembly Lot Number ●: Pb-free microdot </p> </div>