

Final Product/Process Change Notification Document #: FPCN22042X

Issue Date: 21 November 2017

Title of Change:	Mold compound changes to Green version for DOSMA, SMB, SMC & lead frame of internal structure changes from triple to bi-layer for TTN30.		
Proposed first ship date:	28 February 2018		
Contact information:	Contact your local ON Semiconductor Sales Office or < <u>edgar.kim@onsemi.com></u>		
Samples:	Contact your local ON Semiconductor Sales Office		
Additional Reliability Data:	Contact your local ON Semiconductor Sales Office or < <u>Ken.fergus@onsemi.com</u> >.		
Type of notification:	This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change. ON Semiconductor will consider this change accepted, unless an inquiry is made in writing within 30 days of delivery of this notice. To do so, contact <pcn.support@onsemi.com>.</pcn.support@onsemi.com>		
Change Part Identification:	Affected products will be identified with date code.		
Change category:	Wafer Fab Change Assembly Change Test Change Other		
Change Sub-Category(s): Manufacturing Site Change/ Manufacturing Process Cha			
Sites Affected:	ON Semiconductor Sites: External Foundry/Subcon Sites: Panjit		
Description and Purpose:	·		
products.	to customers that due to environmental concerns, the standard industry is moving into Green Haloge a corporate directive to go for Green, and the change of internal lead frame to bi-layer is to ensure the ckage products.		
Material to be chang	ed Before Change Description After Change Description		
Lead frame	Triple layer Bi layer		
Mold Compound			



Reliability Data Summary:

QV DEVICE NAME: S1A, SMBK22A, SMCJ14A for changing mold compound to Green.				
Test	Specification	Condition	Interval	Results
PC	J-STD-020 JESD- A113	TMCL -55~+150 ,5cycle Bake 125 +5/-0 °C, 24hours Temperature humidity 85°C/85%RH, 168hours 4. Reflow 3 times	1 сус	0/693(3lots)
HTRB	JESD22-A108	Ta=100°C, 100% max rated V	168 hrs 500 hrs 1000 hrs	0/231(3lots) 0/231(3lots) 0/231(3lots)
H ³ TRB (THBT)	JESD22-A101	TA=85°C+/-2°C RH=85%+/-5% VR=80%VB (customer spec.) DC Supply	168 hrs 500 hrs 1000 hrs	0/231(3lots) 0/231(3lots) 0/231(3lots)
TC (TMCL)	JESD22-A104	Ta = -55 + 0°C/-10°C 10min Ta = +150 + 15°C/ - 0°C10min Transfer time ≦1 min. The load Should reach temp. within 15mins	100 сус 500 сус 1000 сус	0/231(3lots) 0/231(3lots) 0/231(3lots)
PTC (PRCL)	JESD22- B105	∆Tj≧100°C DC supply On time: 2 mins at least , Off time : 2 mins at least	7500 cyc 15000 cyc	0/231(3lots) 0/231(3lots)
HTSL	JESD22-A103C	Ta = 150C	168 hrs 500 hrs 1000 hrs	0/231(3lots) 0/231(3lots) 0/231(3lots)
RSH	JESD22 A-111 (SMD) B-106 (PTH)	Temperature of solder pot=260±5°CTime for dipping in solder=10±1sec Dipping depth=within 1.27mm of the body	1 сус	0/90(3lots)

QV DEVICE NAME: MB8S. For changing the internal structure of lead frame from triple layer to bi layer.

Test	Specification	Condition	Interval	Results
PC	J-STD-020 JESD- A113	TMCL -55~+150 ,5cycle Bake 125 +5/-0 °C, 24hours Temperature humidity 85°C/85%RH, 168hours 4. Reflow 3 times	1 сус	0/693(3lots)
HTRB	JESD22-A108	Ta=100°C, 100% max rated V	168 hrs 500 hrs 1000 hrs	0/231(3lots) 0/231(3lots) 0/231(3lots)
H ³ TRB (THBT)	JESD22-A101	TA=85°C+/-2°C RH=85%+/-5% VR=80%VB (customer spec.) DC Supply	168 hrs 500 hrs 1000 hrs	0/231(3lots) 0/231(3lots) 0/231(3lots)
TC (TMCL)	JESD22-A104	Ta = -55 + 0°C/-10°C 10min Ta = +150 + 15°C/ - 0°C10min Transfer time ≦ 1 min. The load Should reach temp. within 15mins	100 сус 500 сус 1000 сус	0/231(3lots) 0/231(3lots) 0/231(3lots)
PTC (PRCL)	JESD22- B105	∆Tj≧100°C DC supply On time: 2 mins at least , Off time: 2 mins at least	7500 cyc 15000 cyc	0/231(3lots) 0/231(3lots)
HTSL	JESD22-A103C	Ta = 150C	168 hrs 500 hrs 1000 hrs	0/231(3lots) 0/231(3lots) 0/231(3lots)
RSH	JESD22 A-111 (SMD) B-106 (PTH)	Temperature of solder pot=260±5°CTime for dipping in solder=10±1sec Dipping depth=within 1.27mm of the body	1 сус	0/90(3lots)



Electrical characteristicare not impacted.	
List of Affected Parts:	
Product ID	Qualification Vehicle
DF005S	
DF01S	
DF02S	
DF04S	DF005S
DF06S	
DF08S	
DF10S	
DF005M	
DF01M	
DF02M	
DF04M	DF01M
DF06M	
DF08M	
DF10M	
MB1S	
MB2S	
MB4S	MB8S
MB6S	
MB8S	
\$100	
S1A	
S1B	
S1D	_
\$1G	
S1J	
S1K	_
\$1M	S1A
SS12	
S\$13	
SS14	
SS15	
SS16	
SS18	
SS19	



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ES1A	
ES1B	
ES1C	
ES1D	
ES1F	
ES1G	
ES1H	
ES1J	
RS1A	
RS1B	
RS1D	
RS1G	1
RS1J	1
RS1K	
RS1M	
EGF1A	
EGF1B	S1A
EGF1C	
EGF1D	
GF1A	
GF1B	
GF1D	
GF1G	
GF1J	
GF1K	
GF1M	
RGF1A	
RGF1B	
RGF1D	
RGF1G	
RGF1J	
RGF1K	1
RGF1M	
MBRS130	
MBRS130L	
MBRS140	1
\$210	SMBJ22A
S2A	1
S2B	1
S2D	



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S2G
S2J
S2K
S2M
SMBJ100A
SMBJ100CA
SMBJ10A
SMBJ10CA
SMBJ110A
SMBJ110CA
SMBJ11A
SMBJ11CA
SMBJ120A
SMBJ120CA
SMBJ12A
SMBJ12CA
SMBJ130A
SMBJ130CA
SMBJ13A
SMBJ13CA
SMBJ14A
SMBJ14CA
SMBJ150A
SMBJ150CA
SMBJ15A
SMBJ15CA
SMBJ160A
SMBJ160CA
SMBJ16A
SMBJ16CA
SMBJ170A
SMBJ170CA
SMBJ17A
SMBJ17CA
SMBJ18A
SMBJ18CA
SMBJ20A
SMBJ20CA
SMBJ22A
SMBJ22CA
SMBJ24A

SMBJ22A



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SMBJ24CA
SMBJ26A
SMBJ26CA
SMBJ28A
SMBJ28CA
SMBJ30A
SMBJ30CA
SMBJ33A
SMBJ33CA
SMBJ36A
SMBJ36CA
SMBJ40A
SMBJ40CA
SMBJ43A
SMBJ43CA
SMBJ45A
SMBJ45CA
SMBJ48A
SMBJ48CA
SMBJ51A
SMBJ51CA
SMBJ54A
SMBJ54CA
SMBJ58A
SMBJ58CA
SMBJ5V0A
SMBJ5V0CA
SMBJ60A
SMBJ60CA
SMBJ64A
SMBJ64CA
SMBJ6V0A
SMBJ6V0CA
SMBJ6V5A
SMBJ6V5CA
SMBJ70A
SMBJ70CA
SMBJ75A
SMBJ75CA
SMBJ78A
SMBJ78CA
JIND/OCA

SMBJ22A



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SMBJ7V0A
SMBJ7V0CA
SMBJ7V5A
SMBJ7V5CA
SMBJ85A
SMBJ85CA
SMBJ8V0A
SMBJ8V0CA
SMBJ8V5A
SMBJ8V5CA
SMBJ90A
SMBJ90CA
SMBJ9V0A
SMBJ9V0CA
SS22
\$\$23
SS24
\$\$25
SS26
SS28
SS29
ES2A
ES2B
ES2C
ES2D
MBRS320
MBRS340
\$310
S3A
S3B
S3D
S3G
53J
S3К
S3M
S3N
SMCJ100A
SMCJ100CA
SMCJ10A
SMCJ10CA
SMCJ110A

SMBJ22A



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SMCJ110CA
SMCJ11A
SMCJ11CA
SMCJ120A
SMCJ120CA
SMCJ12A
SMCJ12CA
SMCJ130A
SMCJ130CA
SMCJ13A
SMCJ13CA
SMCJ14A
SMCJ14CA
SMCJ150A
SMCJ150CA
SMCJ15A
SMCJ15CA
SMCJ160A
SMCJ160CA
SMCJ16A
SMCJ16CA
SMCJ170A
SMCJ170CA
SMCJ17A
SMCJ17CA
SMCJ18A
SMCJ18CA
SMCJ20A
SMCJ20CA
SMCJ22A
SMCJ22CA
SMCJ24A
SMCJ24CA
SMCJ26A
SMCJ26CA
SMCJ28A
SMCJ28CA
SMCJ30A
SMCJ30CA
SMCJ33A
SMCJ33CA

SMCJ14A



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SMCJ36A
SMCJ36CA
SMCJ40A
SMCJ40CA
SMCJ43A
SMCJ43CA
SMCJ45A
SMCJ45CA
SMCJ48A
SMCJ48CA
SMCJ51A
SMCJ51CA
SMCJ54A
SMCJ54CA
SMCJ58A
SMCJ58CA
SMCJ5V0A
SMCJ5V0CA
SMCJ60A
SMCJ60CA
SMCJ64A
SMCJ64CA
SMCJ6V0A
SMCJ6V0CA
SMCJ6V5A
SMCJ6V5CA
SMCJ70A
SMCJ70CA
SMCJ75A
SMCJ75CA
SMCJ78A
SMCJ78CA
SMCJ7V0A
SMCJ7V0CA
SMCJ7V5A
SMCJ7V5CA
SMCJ85A
SMCJ85CA
SMCJ8V0A
SMCJ8V0CA
SMCJ8V5A

SMCJ14A



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SMCJ8V5CA	
SMCJ90A	
SMCJ90CA	
SMCJ9V0A	
SMCJ9V0CA	
SS32	
SS33	
SS34	
SS35	SMCJ14A
SS36	
SS38	
SS39	
ES3A	
ES3B	
ES3C	
ES3D	
ES3J	



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Appendix A: Changed Products

Product	Customer Part Number	Qualification Vehicle
DF005M		DF01M
DF005S		DF005S
DF01M		DF01M
DF01S		DF005S
DF02M		DF01M
DF02S		DF005S
DF04M		DF01M
DF04S		DF005S
DF06M		DF01M
DF06S		DF005S
DF08M		DF01M
DF08S		DF005S
DF10M		DF01M
DF10S		DF005S
EGF1A		SIA
EGF1B		S1A
EGF1C		S1A
EGF1D		S1A S1A
EGF1D ES1A		STA S1A
ES1A ES1B		S1A S1A
ES1C		S1A
ES1D		S1A
ES1F		S1A
ES1G		S1A
ES1H		S1A
ES1J		S1A
ES2A		SMBJ22A
ES2B		SMBJ22A
ES2C		SMBJ22A
ES2D		SMBJ22A
ES3A		SMCJ14A
ES3B		SMCJ14A
ES3C		SMCJ14A
ES3D		SMCJ14A
ES3J		SMCJ14A
GF1A		S1A
GF1B		S1A
GF1D		S1A
GF1G		S1A
GF1J		S1A
GF1K		S1A
GF1M		S1A
MB1S		MB8S
MB2S	Î	MB8S
MB4S	Ì	MB8S
MB6S	l l	MB8S
MB8S	i	MB8S
MBRS130	i	SMBJ22A
MBRS130L	i	SMBJ22A
MBRS140		SMBJ22A
MBRS320		SMCJ14A
MBRS340		SMCJ14A
RGF1A		SIA
RGF1B		S1A S1A
RGF1D		S1A S1A
RGF1D RGF1G		S1A S1A
RGF1J		S1A
RGF1K		SIA
RGF1M		S1A





RS1A		S1A
RS1B		S1A
RS1D	1	S1A
RS1G		S1A
RS1J		S1A
RS1K		S1A
RS1M		S1A
S100		S1A
S1A		S1A
S1B		S1A
S1D		S1A
S1G		S1A
S1J		S1A
S1K		S1A
S1M		S1A
S210		SMBJ22A
S2A		SMBJ22A
S2B		SMBJ22A
S2D		SMBJ22A
S2G		SMBJ22A
S2J		SMBJ22A
S2K		SMBJ22A
S2M		SMBJ22A
S310		SMCJ14A
S3A		SMCJ14A
S3B		SMCJ14A
S3D		SMCJ14A
S3G		SMCJ14A
S3J		SMCJ14A
S3K		SMCJ14A
S3M		SMCJ14A
S3N		SMCJ14A
SMBJ100A		SMBJ22A
SMBJ100CA		SMBJ22A
SMBJ10A		SMBJ22A
SMBJ10CA		SMBJ22A
SMBJ110A		SMBJ22A
SMBJ110CA		SMBJ22A
SMBJ11A		SMBJ22A
SMBJ11CA		SMBJ22A
SMBJ120A		SMBJ22A
SMBJ120CA		SMBJ22A
SMBJ12A		SMBJ22A
SMBJ12CA		SMBJ22A
SMBJ130A		SMBJ22A
SMBJ130CA		SMBJ22A
SMBJ13A		SMBJ22A
SMBJ13CA		SMBJ22A
SMBJ14A		SMBJ22A
SMBJ14CA		SMBJ22A
SMBJ150A	1	SMBJ22A
SMBJ150CA		SMBJ22A
SMBJ15A		SMBJ22A
SMBJ15CA	i	SMBJ22A
SMBJ160A	i	SMBJ22A
SMBJ160CA	1	SMBJ22A
SMBJ16A	i	SMBJ22A
SMBJ16CA	i	SMBJ22A
SMBJ170A	İ	SMBJ22A
SMBJ170CA		SMBJ22A
SMBJ17A	1	SMBJ22A
SMBJ17CA	1	SMBJ22A
SMBJ18A		SMBJ22A
SMBJ18CA	1	SMBJ22A
SMBJ20A		SMBJ22A SMBJ22A
SMB.I20CA		SIMB-122A
		SMBJ22A SMBJ22A
SMBJ20CA SMBJ22A SMBJ22CA		SMBJ22A SMBJ22A SMBJ22A





SMBJ24A		SMBJ22A
SMBJ24CA		SMBJ22A
SMBJ26A		SMBJ22A
SMBJ26CA		SMBJ22A
SMBJ28A		SMBJ22A
SMBJ28CA		SMBJ22A
SMBJ30A		SMBJ22A
SMBJ30CA		SMBJ22A
SMBJ33A		SMBJ22A
SMBJ33CA		SMBJ22A
SMBJ36A		SMBJ22A
SMBJ36CA		SMBJ22A
SMBJ40A		SMBJ22A
SMBJ40CA		SMBJ22A
SMBJ43A		SMBJ22A
SMBJ43CA		SMBJ22A
SMBJ45A		SMBJ22A
SMBJ45CA		SMBJ22A
SMBJ48A		SMBJ22A
SMBJ48CA		SMBJ22A
SMBJ51A		SMBJ22A
SMBJ51CA		SMBJ22A
SMBJ54A		SMBJ22A
SMBJ54CA		SMBJ22A
SMBJ58A		SMBJ22A
SMBJ58CA		SMBJ22A
SMBJ5V0A		SMBJ22A
SMBJ5V0CA		SMBJ22A
SMBJ60A		SMBJ22A
SMBJ60CA		SMBJ22A
SMBJ64A		SMBJ22A
SMBJ64CA		SMBJ22A
SMBJ6V0A		SMBJ22A
SMBJ6V0CA		SMBJ22A
SMBJ6V5A		SMBJ22A
SMBJ6V5CA		SMBJ22A
SMBJ70A SMBJ70CA		SMBJ22A
SMBJ70CA SMBJ75A		SMBJ22A SMBJ22A
SMBJ75A SMBJ75CA		SMBJ22A SMBJ22A
SMBJ75CA SMBJ78A		SMBJ22A SMBJ22A
SMBJ78A SMBJ78CA		SMBJ22A SMBJ22A
SMBJ78CA SMBJ7V0A		SMBJ22A SMBJ22A
SMBJ7V0A SMBJ7V0CA		SMBJ22A SMBJ22A
SMBJ7V0CA SMBJ7V5A		SMBJ22A SMBJ22A
SMBJ7V5CA SMBJ85A		SMBJ22A SMBJ22A
SMBJ85A SMBJ85CA		SMBJ22A SMBJ22A
SMBJ85CA SMBJ8V0A	·	SMBJ22A SMBJ22A
SMBJ8V0A		SMBJ22A SMBJ22A
SMBJ8V0CA SMBJ8V5A		SMBJ22A SMBJ22A
SMBJ8V5CA		SMBJ22A SMBJ22A
SMBJ90A	·	SMBJ22A SMBJ22A
SMBJ90A SMBJ90CA		
		SMB.122A
SMB.I9V0A		SMBJ22A SMBJ22A
		SMBJ22A
SMBJ9V0CA		SMBJ22A SMBJ22A
SMBJ9V0CA SMCJ100A		SMBJ22A SMBJ22A SMCJ14A
SMBJ9V0CA SMCJ100A SMCJ100CA		SMBJ22A SMBJ22A SMCJ14A SMCJ14A
SMBJ9V0CA SMCJ100A SMCJ100CA SMCJ10A		SMBJ22A SMBJ22A SMCJ14A SMCJ14A SMCJ14A
SMBJ9V0CA SMCJ100A SMCJ100CA SMCJ10A SMCJ10CA		SMBJ22A SMBJ22A SMCJ14A SMCJ14A SMCJ14A SMCJ14A
SMBJ9V0CA SMCJ100A SMCJ100CA SMCJ10A SMCJ10CA SMCJ10CA SMCJ110A		SMBJ22A SMBJ22A SMCJ14A SMCJ14A SMCJ14A SMCJ14A SMCJ14A
SMBJ9V0CA SMCJ100A SMCJ100CA SMCJ10A SMCJ10CA SMCJ110A SMCJ110CA		SMBJ22A SMBJ22A SMCJ14A SMCJ14A SMCJ14A SMCJ14A SMCJ14A SMCJ14A
SMBJ9V0CA SMCJ100A SMCJ100CA SMCJ10A SMCJ10CA SMCJ110A SMCJ110CA SMCJ110CA SMCJ11A		SMBJ22A SMBJ22A SMCJ14A SMCJ14A SMCJ14A SMCJ14A SMCJ14A SMCJ14A SMCJ14A SMCJ14A
SMBJ9V0CA SMCJ100A SMCJ100CA SMCJ10A SMCJ10CA SMCJ110A SMCJ110CA SMCJ11A SMCJ11A		SMBJ22A SMBJ22A SMCJ14A SMCJ14A SMCJ14A SMCJ14A SMCJ14A SMCJ14A SMCJ14A SMCJ14A
SMBJ9V0CA SMCJ100A SMCJ100CA SMCJ10A SMCJ10CA SMCJ110A SMCJ110CA SMCJ11A SMCJ11CA SMCJ11CA SMCJ120A		SMBJ22A SMBJ22A SMCJ14A SMCJ14A SMCJ14A SMCJ14A SMCJ14A SMCJ14A SMCJ14A SMCJ14A SMCJ14A SMCJ14A
SMBJ9V0CA SMCJ100A SMCJ100CA SMCJ10A SMCJ10CA SMCJ110A SMCJ110CA SMCJ11A SMCJ11CA SMCJ11CA SMCJ120A SMCJ120CA		SMBJ22A SMBJ22A SMCJ14A SMCJ14A SMCJ14A SMCJ14A SMCJ14A SMCJ14A SMCJ14A SMCJ14A SMCJ14A SMCJ14A SMCJ14A
SMCJ100A SMCJ100CA SMCJ10A SMCJ10CA SMCJ110A SMCJ110CA SMCJ11A SMCJ11CA SMCJ11CA SMCJ120A		SMBJ22A SMBJ22A SMCJ14A SMCJ14A SMCJ14A SMCJ14A SMCJ14A SMCJ14A SMCJ14A SMCJ14A SMCJ14A SMCJ14A





SMCJ130A	1	SMCJ14A
SMCJ130CA		SMCJ14A
SMCJ13A		SMCJ14A
SMCJ13CA		SMCJ14A
SMCJ14A		SMCJ14A
SMCJ14CA		SMCJ14A
SMCJ150A		SMCJ14A
SMCJ150CA		SMCJ14A
SMCJ15A		SMCJ14A
SMCJ15CA		SMCJ14A
SMCJ160A		SMCJ14A
SMCJ160CA		SMCJ14A
SMCJ16A		SMCJ14A
SMCJ16CA		SMCJ14A
SMCJ170A SMCJ170CA		SMCJ14A
SMCJ170CA SMCJ17A		SMCJ14A SMCJ14A
SMCJ17A SMCJ17CA		SMCJ14A SMCJ14A
SMCJ18A SMCJ18CA	1	SMCJ14A SMCJ14A
SMCJ18CA SMCJ20A	1	SMCJ14A SMCJ14A
SMCJ20A SMCJ20CA	1	SMCJ14A SMCJ14A
SMCJ20CA SMCJ22A	1	SMCJ14A SMCJ14A
SMCJ22A SMCJ22CA	1	SMCJ14A SMCJ14A
SMCJ22CA SMCJ24A	1	SMCJ14A SMCJ14A
SMCJ24A SMCJ24CA	1	SMCJ14A SMCJ14A
SMCJ24CA SMCJ26A	ł	SMCJ14A SMCJ14A
SMCJ26A SMCJ26CA	ł	SMCJ14A SMCJ14A
SMCJ28CA SMCJ28A	ł	SMCJ14A SMCJ14A
SMCJ28A SMCJ28CA	<u> </u>	SMCJ14A SMCJ14A
SMCJ28CA SMCJ30A		SMCJ14A SMCJ14A
SMCJ30A SMCJ30CA	ł	SMCJ14A SMCJ14A
SMCJ30CA SMCJ33A	<u> </u>	SMCJ14A SMCJ14A
SMCJ33CA		SMCJ14A SMCJ14A
SMCJ36A		SMCJ14A
SMCJ36CA		SMCJ14A
SMCJ30CA SMCJ40A		SMCJ14A SMCJ14A
SMCJ40CA		SMCJ14A
SMCJ43A		SMCJ14A
SMCJ43CA		SMCJ14A
SMCJ45A		SMCJ14A
SMCJ45CA		SMCJ14A
SMCJ48A		SMCJ14A
SMCJ48CA		SMCJ14A
SMCJ51A		SMCJ14A
SMCJ51CA		SMCJ14A
SMCJ54A		SMCJ14A
SMCJ54CA		SMCJ14A
SMCJ58A	1	SMCJ14A
SMCJ58CA		SMCJ14A
SMCJ5V0A	1	SMCJ14A
SMCJ5V0CA	1	SMCJ14A
SMCJ60A	1	SMCJ14A
SMCJ60CA	Ì	SMCJ14A
SMCJ64A	Ì	SMCJ14A
SMCJ64CA	1	SMCJ14A
SMCJ6V0A	Ì	SMCJ14A
SMCJ6V0CA	1	SMCJ14A
SMCJ6V5A	1	SMCJ14A
SMCJ6V5CA	1	SMCJ14A
SMCJ70A	1	SMCJ14A
SMCJ70CA	1	SMCJ14A
SMCJ75A	1	SMCJ14A
SMCJ75CA	Ì	SMCJ14A
SMCJ78A	1	SMCJ14A
SIVICJ/0A		
	1	SMCJ14A
SMCJ78CA		SMCJ14A SMCJ14A
SMCJ76A SMCJ78CA SMCJ7V0A SMCJ7V0CA		SMCJ14A SMCJ14A SMCJ14A





SMCJ7V5A	1	SMCJ14A	1
SMCJ7V5CA		SMCJ14A	
SMCJ85A		SMCJ14A	
SMCJ85CA		SMCJ14A	
SMCJ8V0A		SMCJ14A	
SMCJ8V0CA		SMCJ14A	
SMCJ8V5A		SMCJ14A	
SMCJ8V5CA		SMCJ14A	
SMCJ90A		SMCJ14A	
SMCJ90CA		SMCJ14A	
SMCJ9V0A		SMCJ14A	
SMCJ9V0CA		SMCJ14A	
SS12		S1A	
SS13		S1A	
SS14		S1A	
SS15		S1A	
SS16		S1A	
SS18		S1A	
SS19		S1A	
SS22		SMBJ22A	
SS23		SMBJ22A	
SS24		SMBJ22A	
SS25		SMBJ22A	
SS26		SMBJ22A	
SS28		SMBJ22A	
SS29		SMBJ22A	
SS32		SMCJ14A	
SS33		SMCJ14A	
SS34		SMCJ14A	
SS35		SMCJ14A	
SS36		SMCJ14A	
SS38		SMCJ14A	
SS39		SMCJ14A	