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**GENERAL ANNOUNCEMENT**  
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**28-Dec-2005**

**SUBJECT: ON Semiconductor General Announcement #15212**

**TITLE: Pb-free Conversion - Backward Compatibility**

**EFFECTIVE DATE: 28-Dec-2005**

**AFFECTED PRODUCT DIVISION: ON Semiconductor**

**FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:**

Contact Your Local ON Semiconductor Sales Representative or  
Marji Baumann <[marji.baumann@onsemi.com](mailto:marji.baumann@onsemi.com)>

**DESCRIPTION AND PURPOSE:**

On October 4, 2005, ON Semiconductor released a General Announcement (#15026) stating our intent to convert our customers over to Pb-free products by the end of 2006. We also stated that our products are backwards compatible but excluded the T03 and T0-92 packages. These packages are now backward compatible. Customers who have not yet converted their board solder processes over to Pb-free should not delay as the Pb-free products supplied by ON Semiconductor can be used in standard SnPb and Pb-free processes.

NOTE: Exception for BGA and Flip Chip products. These packages are not backward compatible.


**AFFECTED DEVICE LIST**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| 2N3055      | 2N4401RLRMG | 2N5089RLREG | 2N5551RLRAG |
| 2N3055A     | 2N4401RLRP  | 2N5210RLRA  | 2N5551RLRM  |
| 2N3055AG    | 2N4401RLRPG | 2N5302      | 2N5551RLRMG |
| 2N3055G     | 2N4403      | 2N5302G     | 2N5551RLRP  |
| 2N3055H     | 2N4403RL    | 2N5400      | 2N5551RLRPG |
| 2N3055HG    | 2N4403RLG   | 2N5400G     | 2N5551ZL1   |
| 2N3442      | 2N4403RLRA  | 2N5400RLRP  | 2N5551ZL1G  |
| 2N3442G     | 2N4403RLRAG | 2N5400RLRPG | 2N5555      |
| 2N3771      | 2N4403RLRM  | 2N5401      | 2N5631      |
| 2N3771G     | 2N4403RLRMG | 2N5401G     | 2N5631G     |
| 2N3772      | 2N4403RLRP  | 2N5401RL1   | 2N5638RLRA  |
| 2N3772G     | 2N4403RLRPG | 2N5401RL1G  | 2N5638RLRAG |
| 2N3773      | 2N5038      | 2N5401RLRA  | 2N5639      |
| 2N3773G     | 2N5038G     | 2N5401RLRAG | 2N5639G     |
| 2N3819      | 2N5060      | 2N5401RLRM  | 2N5639RLRA  |
| 2N3903RLRM  | 2N5060G     | 2N5401RLRMG | 2N5639RLRAG |
| 2N3904      | 2N5060RLRA  | 2N5401ZL1   | 2N5684      |
| 2N3904G     | 2N5060RLRAG | 2N5401ZL1G  | 2N5684G     |
| 2N3904RL1   | 2N5060RLRM  | 2N5457      | 2N5686      |
| 2N3904RL1G  | 2N5060RLRMG | 2N5457G     | 2N5686G     |
| 2N3904RLRA  | 2N5061      | 2N5458      | 2N5883      |
| 2N3904RLRM  | 2N5061G     | 2N5458G     | 2N5883G     |
| 2N3904RLRMG | 2N5061RLRA  | 2N5460      | 2N5884      |
| 2N3904RLRP  | 2N5061RLRAG | 2N5460G     | 2N5884G     |
| 2N3904RLRPG | 2N5062      | 2N5461      | 2N5885      |
| 2N3904ZL1   | 2N5062G     | 2N5461G     | 2N5885G     |
| 2N3904ZL1G  | 2N5062RLRA  | 2N5461RLRA  | 2N5886      |
| 2N3906      | 2N5062RLRAG | 2N5461RLRAG | 2N5886G     |
| 2N3906G     | 2N5064      | 2N5462      | 2N6027      |
| 2N3906RL1   | 2N5064G     | 2N5462G     | 2N6027G     |
| 2N3906RL1G  | 2N5064RLRA  | 2N5485      | 2N6027RL1   |
| 2N3906RLRA  | 2N5064RLRAG | 2N5485G     | 2N6027RL1G  |
| 2N3906RLRAG | 2N5064RLRM  | 2N5486      | 2N6027RLRA  |
| 2N3906RLRM  | 2N5064RLRMG | 2N5486G     | 2N6027RLRAG |
| 2N3906RLRMG | 2N5087      | 2N5486RLRP  | 2N6028      |
| 2N3906RLRP  | 2N5087G     | 2N5486RLRPG | 2N6028G     |
| 2N3906RLRPG | 2N5087RLRA  | 2N5550      | 2N6028RLRA  |
| 2N3906ZL1   | 2N5087RLRAG | 2N5550G     | 2N6028RLRAG |
| 2N3906ZL1G  | 2N5088      | 2N5550RLRA  | 2N6028RLRM  |
| 2N4123RLRM  | 2N5088G     | 2N5550RLRAG | 2N6028RLRMG |
| 2N4124      | 2N5088RLRA  | 2N5550RLRP  | 2N6028RLRP  |
| 2N4124G     | 2N5088RLRAG | 2N5550RLRPG | 2N6028RLRPG |
| 2N4401      | 2N5089      | 2N5551      | 2N6031      |
| 2N4401G     | 2N5089G     | 2N5551G     | 2N6031G     |
| 2N4401RLRA  | 2N5089RLRA  | 2N5551RL1   | 2N6052      |
| 2N4401RLRAG | 2N5089RLRAG | 2N5551RL1G  | 2N6052G     |
| 2N4401RLRM  | 2N5089RLRE  | 2N5551RLRA  | 2N6282      |


**AFFECTED DEVICE LIST**

|              |              |              |            |
|--------------|--------------|--------------|------------|
| 2N6282G      | BC182A       | BC327RL1     | BC449      |
| 2N6284       | BC182AG      | BC327RL1G    | BC449A     |
| 2N6284G      | BC182B       | BC327ZL1     | BC449AG    |
| 2N6286       | BC182BG      | BC327ZL1G    | BC449G     |
| 2N6286G      | BC182BRL1    | BC337        | BC487      |
| 2N6287       | BC182BRL1G   | BC337-016    | BC487B     |
| 2N6287G      | BC182G       | BC337-016G   | BC487BG    |
| 2N6338       | BC212B       | BC337-025    | BC487BRL1  |
| 2N6338G      | BC212BG      | BC337-025G   | BC487G     |
| 2N6341       | BC212BRL1    | BC337-040    | BC488BRL1  |
| 2N6341G      | BC212BRL1G   | BC337-040G   | BC488BRL1G |
| 2N6426       | BC237        | BC337-16RL1  | BC489      |
| 2N6426RLRA   | BC237B       | BC337-16RL1G | BC489A     |
| 2N6426RLRAG  | BC237BG      | BC337-16ZL1  | BC489AG    |
| 2N6427       | BC237BRL1    | BC337-16ZL1G | BC489AZL1  |
| 2N6427G      | BC237BRL1G   | BC337-25RL1  | BC489AZL1G |
| 2N6427RLRA   | BC237BZL1    | BC337-25RL1G | BC489BZL1  |
| 2N6427RLRAG  | BC237BZL1G   | BC337-25ZL1  | BC489BZL1G |
| 2N6515       | BC237C       | BC337-40RL1  | BC489G     |
| 2N6515RLRM   | BC237CG      | BC337-40RL1G | BC489RL1   |
| 2N6515RLRMG  | BC237G       | BC337-40ZL1  | BC489RL1G  |
| 2N6517       | BC239C       | BC337-40ZL1G | BC490      |
| 2N6517G      | BC239CG      | BC337G       | BC490A     |
| 2N6517RLRA   | BC307B       | BC337RL1     | BC490AG    |
| 2N6517RLRAG  | BC307BG      | BC337RL1G    | BC490AZL1  |
| 2N6517RLRP   | BC307BRL1    | BC337ZL1     | BC490AZL1G |
| 2N6517RLRPG  | BC307BRL1G   | BC337ZL1G    | BC490G     |
| 2N6520RLRA   | BC307BZL1    | BC338-25ZL1  | BC517      |
| 2N6520RLRAG  | BC307BZL1G   | BC338-25ZL1G | BC517G     |
| 2N6609       | BC307C       | BC368        | BC517RL1   |
| 2N6609G      | BC307CG      | BC368G       | BC517RL1G  |
| 2N7000       | BC327        | BC368ZL1     | BC517ZL1   |
| 2N7000G      | BC327-016    | BC368ZL1G    | BC517ZL1G  |
| 2N7000RLRA   | BC327-016G   | BC369        | BC546B     |
| 2N7000RLRAG  | BC327-025    | BC369G       | BC546BG    |
| 2N7000RLRM   | BC327-025G   | BC369ZL1     | BC546BRL1  |
| 2N7000RLRMG  | BC327-040    | BC369ZL1G    | BC546BRL1G |
| 2N7000RLRP   | BC327-040G   | BC372        | BC546BZL1  |
| 2N7000RLRPG  | BC327-16ZL1  | BC372G       | BC546BZL1G |
| 2N7008G      | BC327-16ZL1G | BC373        | BC547ARL   |
| 2N7008RLRAG  | BC327-25RL1  | BC373G       | BC547ARL1  |
| 2N7008RLREG  | BC327-25RL1G | BC373RL1     | BC547ARL1G |
| 2SA1020      | BC327-25ZL1  | BC373RL1G    | BC547ARLG  |
| 2SA1020G     | BC327-25ZL1G | BC373ZL1     | BC547AZL1  |
| 2SA1020RLRA  | BC327-40ZL1  | BC373ZL1G    | BC547AZL1G |
| 2SA1020RLRAG | BC327-40ZL1G | BC447        | BC547B     |
| BC182        | BC327G       | BC447G       | BC547BG    |


**AFFECTED DEVICE LIST**

|            |              |            |                 |
|------------|--------------|------------|-----------------|
| BC547BRL1  | BC560CG      | BF422      | J110RLRAG       |
| BC547BRL1G | BC560CZL1    | BF422G     | J111RL1         |
| BC547BZL1  | BC560CZL1G   | BF422RL1   | J111RL1G        |
| BC547BZL1G | BC618        | BF422RL1G  | J111RLRA        |
| BC547C     | BC618G       | BF422ZL1   | J111RLRAG       |
| BC547CG    | BC618RL1     | BF422ZL1G  | J111RLRP        |
| BC547CZL1  | BC618RL1G    | BF423      | J111RLRPG       |
| BC547CZL1G | BC635RL1     | BF423G     | J112            |
| BC548B     | BC635RL1G    | BF423ZL1   | J112G           |
| BC548BG    | BC635ZL1     | BF423ZL1G  | J112RL1         |
| BC548BRL1  | BC635ZL1G    | BF493S     | J112RL1G        |
| BC548BRL1G | BC637        | BF493SG    | J112RLRA        |
| BC548BZL1  | BC637G       | BF959      | J112RLRAG       |
| BC548BZL1G | BC638        | BF959G     | J309            |
| BC548C     | BC638G       | BF959RL1   | J309G           |
| BC548CG    | BC638ZL1     | BF959RL1G  | J310            |
| BC548CZL1  | BC638ZL1G    | BF959ZL1   | J310G           |
| BC548CZL1G | BC639        | BF959ZL1G  | J310RLRP        |
| BC549C     | BC639-16ZL1  | BS107      | J310RLRPG       |
| BC549CG    | BC639-16ZL1G | BS107A     | J310ZL1         |
| BC550C     | BC639G       | BS107AG    | J310ZL1G        |
| BC550CG    | BC639RL1     | BS107ARL1  | LC945P          |
| BC556B     | BC639RL1G    | BS107ARL1G | LC945PG         |
| BC556BG    | BC639ZL1     | BS107G     | LC945PRLRA      |
| BC556BZL1  | BC639ZL1G    | BS108      | LC945PRLRAG     |
| BC556BZL1G | BC640        | BS108G     | LC945Q          |
| BC557AZL1  | BC640-016    | BS108ZL1   | LC945QG         |
| BC557AZL1G | BC640-016G   | BS108ZL1G  | LM285Z-1.2      |
| BC557B     | BC640G       | BS170      | LM285Z-1.2G     |
| BC557BG    | BC640ZL1     | BS170G     | LM285Z-1.2RA    |
| BC557BRL1  | BC640ZL1G    | BS170RL1   | LM285Z-1.2RAG   |
| BC557BRL1G | BDC01DRL1    | BS170RL1G  | LM285Z-2.5      |
| BC557BZL1  | BDC01DRL1G   | BS170RLRA  | LM285Z-2.5G     |
| BC557BZL1G | BDC02DRLRP   | BS170RLRAG | LM285Z-2.5RA    |
| BC557C     | BDC02DRLRPG  | BS170RLRM  | LM285Z-2.5RAG   |
| BC557CG    | BF245A       | BS170RLRMG | LM285Z-2.5RP    |
| BC557CZL1  | BF245B       | BS170RLRP  | LM285Z-2.5RPG   |
| BC557CZL1G | BF256A       | BS170RLRPG | LM2931AZ-5.0    |
| BC558BRL   | BF256AG      | BS170ZL1   | LM2931AZ-5.0G   |
| BC558BRL1  | BF393        | BS170ZL1G  | LM2931AZ-5.0RA  |
| BC558BRL1G | BF393G       | BUV21      | LM2931AZ-5.0RAG |
| BC558BRLG  | BF393ZL1     | BUV21G     | LM2931AZ-5.0RP  |
| BC558BZL1  | BF393ZL1G    | BUV22      | LM2931AZ-5.0RPG |
| BC558BZL1G | BF420ZL1     | BUV22G     | LM2931Z-5.0     |
| BC558CZL1  | BF420ZL1G    | J110       | LM2931Z-5.0G    |
| BC558CZL1G | BF421ZL1     | J110G      | LM2931Z-5.0RA   |
| BC560C     | BF421ZL1G    | J110RLRA   | LM2931Z-5.0RAG  |


**AFFECTED DEVICE LIST**

|                  |                  |               |               |
|------------------|------------------|---------------|---------------|
| LM2931Z-5.0RP    | LP2950ACZ-3.3    | MAC997A6RLRPG | MC34064P-5RM  |
| LM2931Z-5.0RPG   | LP2950ACZ-3.3G   | MAC997A8      | MC34064P-5RMG |
| LM317LBZ         | LP2950ACZ-3.3RA  | MAC997A8G     | MC34064P-5RP  |
| LM317LBZG        | LP2950ACZ-3.3RAG | MAC997A8RL1   | MC34064P-5RPG |
| LM317LBZRA       | LP2950ACZ-5.0    | MAC997A8RL1G  | MC34164P-003  |
| LM317LBZRAG      | LP2950ACZ-5.0G   | MAC997A8RLRP  | MC34164P-005  |
| LM317LBZRP       | LP2950ACZ-5.0RA  | MAC997A8RLRPG | MC34164P-3G   |
| LM317LBZRPG      | LP2950ACZ-5.0RAG | MAC997B6      | MC34164P-3RP  |
| LM317LZ          | LP2950CZ-3.0     | MAC997B6G     | MC34164P-3RPG |
| LM317LZG         | LP2950CZ-3.0G    | MAC997B6RL1   | MC34164P-5G   |
| LM317LZRA        | LP2950CZ-3.0RA   | MAC997B6RL1G  | MC34164P-5RA  |
| LM317LZRAG       | LP2950CZ-3.0RAG  | MAC997B6RLRP  | MC34164P-5RAG |
| LM317LZRE        | LP2950CZ-3.3     | MAC997B6RLRPG | MC34164P-5RP  |
| LM317LZRM        | LP2950CZ-3.3G    | MAC997B8      | MC34164P-5RPG |
| LM317LZRP        | LP2950CZ-3.3RA   | MAC997B8G     | MC78L05ABP    |
| LM317LZRPG       | LP2950CZ-3.3RAG  | MAC997B8RL1   | MC78L05ABPG   |
| LM385BZ-1.2      | LP2950CZ-5.0     | MAC997B8RL1G  | MC78L05ABPRA  |
| LM385BZ-1.2G     | LP2950CZ-5.0G    | MAC997B8RLRP  | MC78L05ABPRAG |
| LM385BZ-1.2RA    | LP2950CZ-5.0RA   | MAC997B8RLRPG | MC78L05ABPRE  |
| LM385BZ-1.2RAG   | LP2950CZ-5.0RAG  | MBD101        | MC78L05ABPREG |
| LM385BZ-2.5      | LP2950CZ-5.0RP   | MBD101G       | MC78L05ABPRM  |
| LM385BZ-2.5G     | LP2950CZ-5.0RPG  | MBD301        | MC78L05ABPRMG |
| LM385BZ-2.5RA    | LV2209           | MBD301G       | MC78L05ACP    |
| LM385BZ-2.5RAG   | LV2209G          | MBD701        | MC78L05ACPG   |
| LM385Z-1.2       | MAC97A4          | MBD701G       | MC78L05ACPRA  |
| LM385Z-1.2G      | MAC97A4G         | MC33064P-005  | MC78L05ACPRAG |
| LM385Z-1.2RA     | MAC97A6          | MC33064P-5G   | MC78L05ACPRE  |
| LM385Z-1.2RAG    | MAC97A6G         | MC33064P-5RA  | MC78L05ACPREG |
| LM385Z-1.2RP     | MAC97A6RL1       | MC33064P-5RAG | MC78L05ACPRM  |
| LM385Z-1.2RPG    | MAC97A6RL1G      | MC33064P-5RP  | MC78L05ACPRMG |
| LM385Z-2.5       | MAC97A6RLRF      | MC33064P-5RPG | MC78L05ACPRP  |
| LM385Z-2.5G      | MAC97A6RLRFG     | MC33164P-003  | MC78L05ACPRPG |
| LM385Z-2.5RP     | MAC97A6RLRP      | MC33164P-005  | MC78L08ABP    |
| LM385Z-2.5RPG    | MAC97A6RLRPG     | MC33164P-3G   | MC78L08ABPG   |
| LM9014B          | MAC97A8          | MC33164P-3RA  | MC78L08ABPRA  |
| LM9014C          | MAC97A8G         | MC33164P-3RAG | MC78L08ABPRAG |
| LM9014D          | MAC97A8RL1       | MC33164P-3RP  | MC78L08ABPRP  |
| LM9015C          | MAC97A8RL1G      | MC33164P-3RPG | MC78L08ABPRPG |
| LM9015CG         | MAC97A8RLRM      | MC33164P-5G   | MC78L08ACP    |
| LM9018H          | MAC97A8RLRMG     | MC33164P-5RA  | MC78L08ACPG   |
| LM9018HG         | MAC97A8RLRP      | MC33164P-5RAG | MC78L08ACPRA  |
| LMAC94A4         | MAC97A8RLRPG     | MC33164P-5RP  | MC78L08ACPRAG |
| LMAC94A4G        | MAC997A6         | MC33164P-5RPG | MC78L08ACPREG |
| LP2950ACZ-3.0    | MAC997A6G        | MC34064P-005  | MC78L08ACPRP  |
| LP2950ACZ-3.0G   | MAC997A6RL1      | MC34064P-5G   | MC78L08ACPRPG |
| LP2950ACZ-3.0RA  | MAC997A6RL1G     | MC34064P-5RA  | MC78L08ACPRMG |
| LP2950ACZ-3.0RAG | MAC997A6RLRP     | MC34064P-5RAG | MC78L09ABPRA  |


**AFFECTED DEVICE LIST**

|               |               |               |          |
|---------------|---------------|---------------|----------|
| MC78L09ABPRAG | MC78L24ACPRP  | MC79L24ACPRPG | MJ11030G |
| MC78L09ABPRP  | MC78L24ACPRPG | MCR100-003    | MJ11032  |
| MC78L09ABPRPG | MC79L05ABP    | MCR100-004    | MJ11032G |
| MC78L09ACP    | MC79L05ABPG   | MCR100-006    | MJ11033  |
| MC78L09ACPG   | MC79L05ABPRA  | MCR100-008    | MJ11033G |
| MC78L12ABP    | MC79L05ABPRAG | MCR100-3G     | MJ14001  |
| MC78L12ABPG   | MC79L05ACP    | MCR100-3RL    | MJ14001G |
| MC78L12ABPRP  | MC79L05ACPG   | MCR100-4G     | MJ14002  |
| MC78L12ABPRPG | MC79L05ACPRA  | MCR100-6G     | MJ14002G |
| MC78L12ACP    | MC79L05ACPRAG | MCR100-6RL    | MJ14003  |
| MC78L12ACPG   | MC79L05ACPRM  | MCR100-6RLG   | MJ14003G |
| MC78L12ACPRA  | MC79L05ACPRMG | MCR100-6RLRA  | MJ15001  |
| MC78L12ACPRAG | MC79L05ACPRP  | MCR100-6RLRAG | MJ15001G |
| MC78L12ACPRE  | MC79L05ACPRPG | MCR100-6RLRM  | MJ15002  |
| MC78L12ACPRG  | MC79L12ABP    | MCR100-6RLRMG | MJ15002G |
| MC78L12ACPRM  | MC79L12ABPG   | MCR100-6ZL1   | MJ15003  |
| MC78L12ACPRMG | MC79L12ABPRA  | MCR100-6ZL1G  | MJ15003G |
| MC78L12ACPRP  | MC79L12ABPRAG | MCR100-8G     | MJ15004  |
| MC78L12ACPRPG | MC79L12ACP    | MCR100-8RL    | MJ15004G |
| MC78L15ABP    | MC79L12ACPG   | MCR100-8RLG   | MJ15011  |
| MC78L15ABPG   | MC79L12ACPRA  | MCR22-006     | MJ15011G |
| MC78L15ABPRA  | MC79L12ACPRAG | MCR22-008     | MJ15012  |
| MC78L15ABPRAG | MC79L12ACPRP  | MCR22-2RL1    | MJ15012G |
| MC78L15ABPRP  | MC79L12ACPRPG | MCR22-2RL1G   | MJ15015  |
| MC78L15ABPRPG | MC79L15ABP    | MCR22-6G      | MJ15015G |
| MC78L15ACP    | MC79L15ABPG   | MCR22-6RLRA   | MJ15016  |
| MC78L15ACPG   | MC79L15ABPRP  | MCR22-6RLRAG  | MJ15016G |
| MC78L15ACPRA  | MC79L15ABPRPG | MCR22-6RLRP   | MJ15020  |
| MC78L15ACPRAG | MC79L15ACP    | MCR22-6RLRPG  | MJ15020G |
| MC78L15ACPRP  | MC79L15ACPG   | MCR22-8G      | MJ15021  |
| MC78L15ACPRPG | MC79L15ACPRA  | MCR22-8RL1    | MJ15021G |
| MC78L18ABP    | MC79L15ACPRAG | MCR22-8RL1G   | MJ15022  |
| MC78L18ABPG   | MC79L15ACPRE  | MJ11012       | MJ15022G |
| MC78L18ACP    | MC79L15ACPRG  | MJ11012G      | MJ15023  |
| MC78L18ACPG   | MC79L15ACPRP  | MJ11015       | MJ15023G |
| MC78L18ACPRA  | MC79L15ACPRPG | MJ11015G      | MJ15024  |
| MC78L18ACPRAG | MC79L18ABPRP  | MJ11016       | MJ15024G |
| MC78L18ACPRM  | MC79L18ABPRPG | MJ11016G      | MJ15025  |
| MC78L18ACPRMG | MC79L18ACP    | MJ11021       | MJ15025G |
| MC78L18ACPRP  | MC79L18ACPG   | MJ11021G      | MJ21193  |
| MC78L18ACPRPG | MC79L24ABP    | MJ11022       | MJ21193G |
| MC78L24ABP    | MC79L24ABPG   | MJ11022G      | MJ21194  |
| MC78L24ABPG   | MC79L24ACP    | MJ11028       | MJ21194G |
| MC78L24ACP    | MC79L24ACPG   | MJ11028G      | MJ21195  |
| MC78L24ACPG   | MC79L24ACPRM  | MJ11029       | MJ21195G |
| MC78L24ACPRA  | MC79L24ACPRMG | MJ11029G      | MJ21196  |
| MC78L24ACPRAG | MC79L24ACPRP  | MJ11030       | MJ21196G |


**AFFECTED DEVICE LIST**

|                |               |              |              |
|----------------|---------------|--------------|--------------|
| MJ21294        | MPS2369RLRA   | MPS650       | MPS6725RLRPG |
| MJ21294G       | MPS2369RLRAG  | MPS650G      | MPS6726      |
| MJ2955         | MPS2907A      | MPS650RLRA   | MPS6726G     |
| MJ2955G        | MPS2907AG     | MPS650RLRAG  | MPS6727      |
| MJ4502         | MPS2907ARL    | MPS650ZL1    | MPS6727G     |
| MJ4502G        | MPS2907ARL1   | MPS650ZL1G   | MPS6729      |
| MJ802          | MPS2907ARL1G  | MPS651       | MPS6729G     |
| MJ802G         | MPS2907ARLG   | MPS651G      | MPS750       |
| MPF102         | MPS2907ARLRA  | MPS651RLRA   | MPS750G      |
| MPF4392        | MPS2907ARLRAG | MPS651RLRAG  | MPS750RLRA   |
| MPF4392G       | MPS2907ARLRE  | MPS651RLRM   | MPS750RLRAG  |
| MPF4393        | MPS2907ARLREG | MPS651RLRMG  | MPS750RLRP   |
| MPF4393G       | MPS2907ARLRM  | MPS6521      | MPS750RLRPG  |
| MPF4393RLRP    | MPS2907ARLRMG | MPS6521G     | MPS751       |
| MPF4393RLRPG   | MPS2907ARLRP  | MPS6521RLRA  | MPS751G      |
| MPN3404        | MPS2907ARLRPG | MPS6521RLRAG | MPS751RLRA   |
| MPN3404G       | MPS2907AZL1   | MPS6523      | MPS751RLRAG  |
| MPN3700        | MPS2907AZL1G  | MPS6523G     | MPS751RLRP   |
| MPN3700G       | MPS3563       | MPS6560      | MPS751RLRPG  |
| MPS2222        | MPS3563G      | MPS6560G     | MPS751ZL1    |
| MPS2222A       | MPS3563RLRA   | MPS6601      | MPS751ZL1G   |
| MPS2222ACRLRP  | MPS3563RLRAG  | MPS6601G     | MPS8098      |
| MPS2222ACRLRPG | MPS3638A      | MPS6601RLRA  | MPS8098G     |
| MPS2222AG      | MPS3638AG     | MPS6601RLRAG | MPS8098RLRA  |
| MPS2222ARL     | MPS3646       | MPS6602      | MPS8098RLRAG |
| MPS2222ARLG    | MPS3646G      | MPS6602G     | MPS8099      |
| MPS2222ARLRA   | MPS3646RLRA   | MPS6602RLRA  | MPS8099G     |
| MPS2222ARLRAG  | MPS3646RLRAG  | MPS6602RLRAG | MPS8099RLRA  |
| MPS2222ARLRM   | MPS4124       | MPS6651      | MPS8099RLRAG |
| MPS2222ARLRMG  | MPS4124G      | MPS6651G     | MPS8099RLRM  |
| MPS2222ARLRP   | MPS4124RLRA   | MPS6652      | MPS8099RLRMG |
| MPS2222ARLRPG  | MPS4124RLRAG  | MPS6652G     | MPS8099RLRP  |
| MPS2222AZL1    | MPS4126RLRA   | MPS6652RLRA  | MPS8099RLRPG |
| MPS2222AZL1G   | MPS4126RLRAG  | MPS6652RLRAG | MPS8598RLRA  |
| MPS2222G       | MPS4250       | MPS6652RLRP  | MPS8598RLRAG |
| MPS2222RLRA    | MPS4250ARLRM  | MPS6652RLRPG | MPS8599      |
| MPS2222RLRAG   | MPS4250ARLRMG | MPS6717      | MPS8599G     |
| MPS2222RLRM    | MPS4250G      | MPS6717G     | MPS8599RLRA  |
| MPS2222RLRMG   | MPS4356RLRA   | MPS6717RLRA  | MPS8599RLRAG |
| MPS2222RLRP    | MPS4356RLRAG  | MPS6717RLRAG | MPS8599RLRM  |
| MPS2222RLRPG   | MPS5172       | MPS6724      | MPS8599RLRMG |
| MPS2369        | MPS5172G      | MPS6724G     | MPS918       |
| MPS2369A       | MPS5172RLRM   | MPS6724RLRA  | MPS918G      |
| MPS2369AG      | MPS5172RLRMG  | MPS6724RLRAG | MPSA05       |
| MPS2369ARLRP   | MPS5179       | MPS6725      | MPSA05G      |
| MPS2369ARLRPG  | MPS5179RLRA   | MPS6725G     | MPSA05RLRA   |
| MPS2369G       | MPS5179RLRP   | MPS6725RLRP  | MPSA05RLRAG  |


**AFFECTED DEVICE LIST**

|             |             |             |              |
|-------------|-------------|-------------|--------------|
| MPSA05RLRM  | MPSA27G     | MPSA56RLRM  | MPSA93RLRMG  |
| MPSA05RLRMG | MPSA27RLRA  | MPSA56RLRMG | MPSH10       |
| MPSA06      | MPSA27RLRAG | MPSA56RLRP  | MPSH10G      |
| MPSA06G     | MPSA27RLRM  | MPSA56RLRPG | MPSH10RLRA   |
| MPSA06RL    | MPSA27RLRMG | MPSA56ZL1   | MPSH10RLRP   |
| MPSA06RL1   | MPSA28      | MPSA56ZL1G  | MPSH10RLRPG  |
| MPSA06RL1G  | MPSA28G     | MPSA63      | MPSH17       |
| MPSA06RLG   | MPSA28RLRP  | MPSA63G     | MPSH17G      |
| MPSA06RLRA  | MPSA28RLRPG | MPSA63RLRA  | MPSH17RLRA   |
| MPSA06RLRAG | MPSA29      | MPSA63RLRAG | MPSH17RLRAG  |
| MPSA06RLRM  | MPSA29G     | MPSA63RLRM  | MPSW01       |
| MPSA06RLRMG | MPSA29RLRP  | MPSA63RLRMG | MPSW01A      |
| MPSA06RLRP  | MPSA29RLRPG | MPSA63RLRP  | MPSW01AG     |
| MPSA06RLRPG | MPSA42      | MPSA63RLRPG | MPSW01ARLRA  |
| MPSA12      | MPSA42G     | MPSA63ZL1   | MPSW01ARLRAG |
| MPSA12G     | MPSA42RL1   | MPSA63ZL1G  | MPSW01ARLRP  |
| MPSA12RLRA  | MPSA42RL1G  | MPSA64      | MPSW01ARLRPG |
| MPSA12RLRAG | MPSA42RLRA  | MPSA64G     | MPSW01G      |
| MPSA12RLRP  | MPSA42RLRAG | MPSA64RLRA  | MPSW05       |
| MPSA12RLRPG | MPSA42RLRF  | MPSA64RLRAG | MPSW05G      |
| MPSA13      | MPSA42RLRFG | MPSA64RLRM  | MPSW06       |
| MPSA13G     | MPSA42RLRM  | MPSA64RLRMG | MPSW06G      |
| MPSA13RLRA  | MPSA42RLRMG | MPSA70RLRM  | MPSW06RLRA   |
| MPSA13RLRAG | MPSA42RLRP  | MPSA70RLRMG | MPSW06RLRAG  |
| MPSA13RLRM  | MPSA42RLRPG | MPSA75RLRA  | MPSW13RLRA   |
| MPSA13RLRMG | MPSA42ZL1   | MPSA75RLRAG | MPSW13RLRAG  |
| MPSA13RLRP  | MPSA42ZL1G  | MPSA75RLRP  | MPSW42       |
| MPSA13RLRPG | MPSA43      | MPSA75RLRPG | MPSW42G      |
| MPSA13ZL1   | MPSA43G     | MPSA77      | MPSW42RLRA   |
| MPSA13ZL1G  | MPSA43RLRA  | MPSA77G     | MPSW42RLRAG  |
| MPSA14      | MPSA43RLRAG | MPSA77RLRA  | MPSW45       |
| MPSA14G     | MPSA43ZL1   | MPSA77RLRAG | MPSW45A      |
| MPSA14RLRA  | MPSA43ZL1G  | MPSA92      | MPSW45AG     |
| MPSA14RLRAG | MPSA44      | MPSA92G     | MPSW45ARLRA  |
| MPSA14RLRP  | MPSA44G     | MPSA92RL1   | MPSW45ARLRAG |
| MPSA14RLRPG | MPSA44RL1   | MPSA92RL1G  | MPSW45AZL1   |
| MPSA18      | MPSA44RL1G  | MPSA92RLRA  | MPSW45AZL1G  |
| MPSA18G     | MPSA44RLRA  | MPSA92RLRAG | MPSW45G      |
| MPSA18RLRA  | MPSA44RLRAG | MPSA92RLRM  | MPSW45RLRE   |
| MPSA18RLRAG | MPSA55      | MPSA92RLRMG | MPSW45RLREG  |
| MPSA18RLRM  | MPSA55G     | MPSA92RLRP  | MPSW51       |
| MPSA18RLRMG | MPSA55RLRA  | MPSA92RLRPG | MPSW51A      |
| MPSA18RLRP  | MPSA55RLRAG | MPSA92ZL1   | MPSW51AG     |
| MPSA18RLRPG | MPSA56      | MPSA92ZL1G  | MPSW51ARLRA  |
| MPSA20      | MPSA56G     | MPSA93      | MPSW51ARLRAG |
| MPSA20G     | MPSA56RLRA  | MPSA93G     | MPSW51ARLRP  |
| MPSA27      | MPSA56RLRAG | MPSA93RLRM  | MPSW51ARLRPG |


**AFFECTED DEVICE LIST**

|              |                |             |                |
|--------------|----------------|-------------|----------------|
| MPSW51G      | NCV1009Z       | SCR5129     | SJ9622         |
| MPSW55       | NCV1009ZG      | SCR5162-005 | SPF3144QRLRP   |
| MPSW55G      | NCV33064P-5RA  | SCR5182RLRE | SPF827-1RLRP   |
| MPSW55RLRA   | NCV33064P-5RAG | SCR5211     | SPS5881RLRP    |
| MPSW55RLRAG  | NCV33064P-5RP  | SCR5257     | SPS6981        |
| MPSW56RLRA   | NCV33064P-5RPG | SCR5258     | SPS7239RLRP    |
| MPSW56RLRAG  | P2N2222A       | SCR5285RLRP | SPS7350RLRE    |
| MPSW56RLRP   | P2N2222AG      | SCR5287RLRE | SPS7429RLRE    |
| MPSW56RLRPG  | P2N2222ARL1    | SCR5290     | SPS7947RLRM    |
| MPSW63       | P2N2222ARL1G   | SCR5290RLRA | SPS8010RLRM    |
| MPSW63G      | P2N2222AZL1    | SCR5292RLRA | SPS8253RLRP    |
| MPSW63RLRA   | P2N2222AZL1G   | SCY1009ZTR  | SPS8295-001    |
| MPSW63RLRAG  | P2N2369ZL1     | SCY1009ZTRG | SPS8295-1ARLRM |
| MPSW92       | P2N2369ZL1G    | SJ4092      | SPS8295-1RLRA  |
| MPSW92G      | P2N2907A       | SJ41042     | SPS8342        |
| MPSW92RLRA   | P2N2907AG      | SJ5842      | SPS8361        |
| MPSW92RLRAG  | P2N2907ARL1    | SJ6425-001  | SPS8361RLRM    |
| MSD6100      | P2N2907ARL1G   | SJ6521A     | SPS8403        |
| MSD6100G     | P2N2907AZL1    | SJ6521AG    | SPS8549RLRP    |
| MSD6100RLRA  | P2N2907AZL1G   | SJ6522A     | SPS8551RLRP    |
| MSD6100RLRAG | PBF259RSRL1    | SJ6522AG    | SPS8631        |
| MV104        | PBF259RSRL1G   | SJ71180     | SPS8631ARLRM   |
| MV104G       | PBF259RSZL1    | SJ7120      | SPS8631RLRA    |
| MV104RLRA    | PBF259RSZL1G   | SJ71200     | SPS8631RLRM    |
| MV104RLRAG   | PBF493ZL1      | SJ7140      | SPS8697RLRA    |
| MV209        | PBF493ZL1G     | SJ7147      | SPS8701RLRA    |
| MV209G       | PN2222         | SJ7148      | SPS8751QRLRM   |
| MV209RLRA    | PN2222A        | SJ7153      | SPS8751QRLRP   |
| MV209RLRAG   | PN2222AG       | SJ7157      | SPS8753QRLRM   |
| MV2101       | PN2222ARLRA    | SJ7157G     | SPS8764QQLRB   |
| MV2101G      | PN2222ARLRAG   | SJ7158      | SPS8764QQLRP   |
| MV2105       | PN2222ARLRM    | SJ7158G     | SPS8874QQLRM   |
| MV2105G      | PN2222ARLRMG   | SJ7159      | SPS8913QQLRM   |
| MV2109       | PN2222ARLRP    | SJ7160      | SPS8913QQLRP   |
| MV2109G      | PN2222ARLRPG   | SJ7195      | SPS8913QQLRPG  |
| MV2109RLRA   | PN2222G        | SJ7196      | SPS9001        |
| MV2109RLRAG  | PN2907A        | SJ73100     | SPS9001RLRM    |
| MV2109RLRP   | PN2907AG       | SJ73180     | SPS9048QQLRE   |
| MV2109RLRPG  | PN2907ARLRA    | SJ74140     | SPS9284QQLRP   |
| NCR169D      | PN2907ARLRAG   | SJ74200     | SPS9287        |
| NCR169DG     | SAC997B6       | SJ7443      | SPS9347RLRA    |
| NCR169DRLRA  | SC74883PRA     | SJ81180     | SPS9370        |
| NCR169DRLRAG | SCR100-6RLRA   | SJ8274      | SPS9370RLRM    |
| NCR169DRLRM  | SCR100-6RLRAG  | SJ83100     | SPS9385QQLRA   |
| NCR169DRLRMG | SCR22-6RLRP    | SJ83180     | SPS9386QQLRA   |
| NCR169DRLRP  | SCR22-6RLRPG   | SJ84140     | SPS9386QQLRP   |
| NCR169DRLRPG | SCR5064RLRM    | SJ84200     | SPS9399RLRP    |


**AFFECTED DEVICE LIST**

|               |                 |                |             |
|---------------|-----------------|----------------|-------------|
| SPS9401QRLRM  | SSV1MPSA06RLRA  | TL431CLPRE     | VN2410LZL1  |
| SPS9401QRLRP  | SSV1MPSA06RLRAG | TL431CLPREG    | VN2410LZL1G |
| SPS9401QRLRPG | SSV1MPSA06RLRM  | TL431CLPRM     |             |
| SPS9408RLRM   | SSV1MPSA56      | TL431CLPRMG    |             |
| SPS9418RLRM   | SSV1MPSA56RLRA  | TL431CLPRP     |             |
| SPS9434RLRA   | SSV1MPSA56RLRM  | TL431CLPRPG    |             |
| SPS9452RLRM   | SY98004RLRE     | TL431ILP       |             |
| SPS9457RLRM   | SY98004RLREG    | TL431ILPG      |             |
| SPS9458RLRM   | SY98005RLREG    | TL431ILPRA     |             |
| SPS9461RLRM   | TE01829-001     | TL431ILPRAG    |             |
| SPS9498QRLRP  | TE01829-1G      | TL431ILPRE     |             |
| SPS9498QRLRPG | TE02208         | TL431ILPRM     |             |
| SPS9499QRLRM  | TJ00742ZL1      | TL431ILPRP     |             |
| SPS9499QRLRP  | TL431ACLP       | TL431ILPRPG    |             |
| SPS9505RLRA   | TL431ACLPG      | TLV431ALP      |             |
| SPS9506RLRM   | TL431ACLPRA     | TLV431ALPG     |             |
| SPS9522KRLRA  | TL431ACLPRAG    | TLV431ALPRA    |             |
| SPS9539QRLRM  | TL431ACLPRE     | TLV431ALPRAG   |             |
| SPS9539QRLRP  | TL431ACLPREG    | TLV431ALPRE    |             |
| SPS9544QRLRP  | TL431ACLPRP     | TLV431ALPREG   |             |
| SPS9549RLRA   | TL431ACLPRPG    | TLV431ALPRM    |             |
| SPS9550RLRA   | TL431AILP       | TLV431ALPRMG   |             |
| SPS9553RLRA   | TL431AILPG      | TLV431ALPRP    |             |
| SPS9557RLRA   | TL431AILPRA     | TLV431ALPRPG   |             |
| SPS9558RLRA   | TL431AILPRAG    | TLV431BLP      |             |
| SPS9565RLRA   | TL431AILPRM     | TLV431BLPG     |             |
| SPS9567RLRM   | TL431AILPRMG    | TLV431BLPRA    |             |
| SPS9569RLRA   | TL431AILPRP     | TLV431BLPRAG   |             |
| SPS9575RLRM   | TL431AILPRPG    | TLV431BLPRE    |             |
| SPS9585RLRA   | TL431BCLP       | TLV431BLPREG   |             |
| SPS9587QRLRP  | TL431BCLPG      | TLV431BLPRM    |             |
| SPS9590RLRE   | TL431BCLPRA     | TLV431BLPRMG   |             |
| SPS9590RLRM   | TL431BCLPRAG    | TLV431BLPRP    |             |
| SPS9594-1RLRP | TL431BCLPRE     | TLV431BLPRPG   |             |
| SPS9596RLRM   | TL431BCLPREG    | TP00203        |             |
| SPS9597RLRM   | TL431BCLPRM     | TP00203G       |             |
| SPS9599       | TL431BCLPRMG    | TP00247ZL1     |             |
| SPS9599RLRM   | TL431BILP       | TP00247ZL1G    |             |
| SPS9600RLRE   | TL431BILPG      | TY40413RP      |             |
| SPS9606RLRM   | TL431BILPRA     | TYA33164P-5RP  |             |
| SPS9607RLRM   | TL431BILPRAG    | TYA33164P-5RPG |             |
| SPS9609RLRM   | TL431BVLPG      | VN2222LL       |             |
| SPU145-2RLRA  | TL431BVLPG      | VN2222LLG      |             |
| SSJ1671       | TL431CLP        | VN2222LLRLRA   |             |
| SSV1MPS2907A  | TL431CLPG       | VN2222LLRLRAG  |             |
| SSV1MPSA06    | TL431CLPRA      | VN2410L        |             |
| SSV1MPSA06G   | TL431CLPRAG     | VN2410LG       |             |