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**FINAL PRODUCT/PROCESS CHANGE NOTIFICATION # 20114**

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**Issue Date:** 26-Jul-2013

**TITLE:** Thyristors TO-92 Cu wire conversion with a new compound (KTMC-5200GQ).

**PROPOSED FIRST SHIP DATE:** 26-Oct-2013

**AFFECTED CHANGE CATEGORY(S):** ON Semiconductor Assembly Site

**FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:**

Contact your local ON Semiconductor Sales Office or <[jose.luis.perez.ramirez@onsemi.com](mailto:jose.luis.perez.ramirez@onsemi.com)>

**SAMPLES:** Contact your local ON Semiconductor Sales Office

**ADDITIONAL RELIABILITY DATA:** Available

Contact your local ON Semiconductor Sales Office or <[laura.rivers@onsemi.com](mailto:laura.rivers@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](mailto:quality@onsemi.com)>.

**DESCRIPTION AND PURPOSE:**

ON Semiconductor is notifying customers that the Cu wire (2 mil Cu wire only) conversion with a new compound (KTMC-5200GQ) on the TO-92 packages of the following THYRISTOR products, is now fully qualified. Upon expiration of the associated Final PCN(s), all devices will be assembled with Cu wire and compound (KTMC-5200GQ). No die design, process, or electrical parameters changes occurred as a result of this qualification.

**FINAL PRODUCT/PROCESS CHANGE NOTIFICATION #20114****RELIABILITY DATA SUMMARY:**

Qual Vehicle: MCR100-8RLG

**Reliability Test Results:**

<b>Test</b>	<b>Conditions</b>	<b>Results</b>
<b>AC</b>	121°C/100% RH/15psig	96 Hrs 0/240
<b>TC</b>	Ta = -65/150° C	2000 Cyc 0/240
<b>H3TRB</b>	Ta = 85°C, 85% RH, 80% rated or 100V max	1008 hrs 0/240
<b>HTRB</b>	TA = 85°C, 80% bias for 1008 hours	1008 Hrs 0/240
<b>HTSL</b>	Ta = 150° C	1008 Hrs 0/240
<b>RSH</b>	260 C Immersion	0/90

**ELECTRICAL CHARACTERISTIC SUMMARY:**

Datasheet specifications and product electrical performance will remain unchanged. Additional data is available upon request. Contact Jose Perez < jose.luis.perez.ramirez@onsemi.com >

**CHANGED PART IDENTIFICATION:**

Affected products from ON Semiconductor with date code starting WW33 (2013) and greater will be produced with Cu wire and compound (KTMC-5200GQ).



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**List of affected General Parts:**

2N5060	MAC97A8RL1G	MCR100-6ZL1G
2N5060G	MAC97A8RLRM	MCR100-8G
2N5060RLRA	MAC97A8RLRMG	MCR100-8RL
2N5060RLRAG	MAC97A8RLRP	MCR100-8RLG
2N5060RLRM	MAC97A8RLRPG	MCR22-006
2N5060RLRMG	MAC997A6	MCR22-008
2N5061	MAC997A6G	MCR22-2RL1
2N5061G	MAC997A8	MCR22-2RL1G
2N5061RLRA	MAC997A8G	MCR22-6G
2N5061RLRAG	MAC997A8RL1G	MCR22-6RLRA
2N5062	MAC997A8RLRP	MCR22-6RLRAG
2N5062G	MAC997A8RLRPG	MCR22-6RLRP
2N5062RLRA	MAC997B6	MCR22-6RLRPG
2N5062RLRAG	MAC997B6G	MCR22-8G
2N5064	MAC997B6RL1G	MCR22-8RL1
2N5064G	MAC997B8	MCR22-8RL1G
2N5064RLRA	MAC997B8G	NCR169D
2N5064RLRAG	MAC997B8RL1G	NCR169DG
2N5064RLRM	MCR100-003	NCR169DRLRA
2N5064RLRMG	MCR100-004	NCR169DRLRAG
NYE08-10B6TG	MCR100-006	NYC008-6JG
LMAC94A4	MCR100-008	NYC008-6JRLRAG
LMAC94A4G	MCR100-3G	NYC008-6JRLREG
MAC97A4	MCR100-3RL	TP00203
MAC97A4G	MCR100-3RLG	TP00203G
MAC97A6	MCR100-4G	Z0103MAG
MAC97A6G	MCR100-4RLRMG	Z0103MARL1G
MAC97A6RL1	MCR100-6G	Z0103MARLRFG
MAC97A6RL1G	MCR100-6RL	Z0103MARLRPG
MAC97A6RLRF	MCR100-6RLG	Z0107MAG
MAC97A6RLRFG	MCR100-6RLRA	Z0107MARL1G
MAC97A6RLRP	MCR100-6RLRAG	Z0107MARLRFG
MAC97A6RLRPG	MCR100-6RLRAGH	Z0107MARLRPG
MAC97A8	MCR100-6RLRM	Z0109MAG
MAC97A8G	MCR100-6RLRMG	Z0109MARL1G
MAC97A8RL1	MCR100-6RLRMGH	Z0109MARLRFG
	MCR100-6ZL1	Z0109MARLRPG