

Product Change Notification Update

(Notification – P2006030a-DIG)

(BL202001070-2)

November 16, 2020

To: *Our Valued Digi-Key Electronics Customer*

Overview: The purpose of this notification is to communicate a product change of select Renesas Electronics America, Inc. (REA) devices.

This version of the notification (P2006030a) supersedes the original version (P2006030) with updates to select bond wire, bulk packing and lead forming specifications. The **updates are highlighted** in the Appendix.

For select Thyristor & Triac devices in the TO-92 package, this notification announces the following changes (see the Appendix for details).

1. Package change from TO-92* to TO-92
2. Assembly & Test Site change from Micro Electronics, Ltd. (China) to ASE, Inc. (Weihai, China)
3. Bond Wire change from Au to Cu
4. Die Attach material change to Pb-Free
5. Mold Resin Compound change to Halogen-Free
6. Terminal Finish change from Sn-Cu dipping to Sn plating.

There is a change to the part number. There is no change to electrical characteristics or product reliability.

Affected Products: A review of our records indicates the list of products in the Appendix may affect your company.

Part numbers given in this list are for active part numbers in REA database at the time of this notification.

Key Dates:

Shipments from REA of the replacement device begins.	Sep. 1, 2020
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Response:

No response is required. REA will consider this notification approved 30 days after its issue. If you anticipate volumes beyond your regular rate prior to the transition date, please contact your REA sales representative with a forecast of your requirements.

If the customer provides a timely acknowledgement, the customer shall have 90 days (an additional 60 days) from the date of receipt of this notification in which to make any objection to the notification. If the customer does not make any objection to this notification within 90 days of the receipt of the notification, then Renesas will consider the notification as approved. If customer cannot accept the notification, then the customer must provide Renesas with a last time buy demand and purchase order.

Please contact your REA sales representative for any questions or comments. Thank you for your attention.

Sincerely,

Renesas Electronics America, Inc.

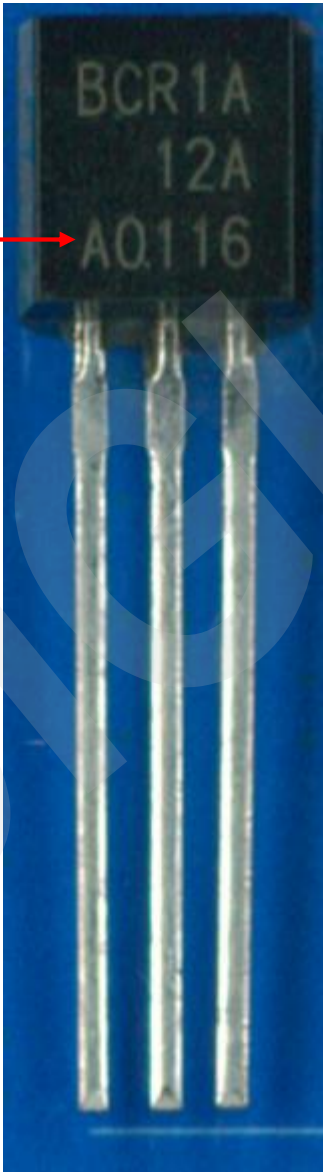

Appendix A: Digi-Key Affected Part Number List

Booking Part Number	Replacement PN
BCR08AM-12A#B00	BCR08AM-12A#BD0
BCR08AM-12A-TB#B00	BCR08AM-12A-TB#BD0
BCR08AM-14A#B00	BCR08AM-14A#BD0
BCR08AM-14A-A6#B00	BCR08AM-14A-A6#BD0
BCR1AM-8P#B00	BCR1AM-8P#BD0
BCR1AM-12A#C01	BCR1AM-12A#BD0
BCR1AM-12A-TB#C01	BCR1AM-12A-TB#BD0
BCR3AM-12B#B00	BCR3AM-12B#BD0
BCR3AM-14B#B00	BCR3AM-14B#BD0
CR02AM-8#F00	CR02AM-8#BD0
CR03AM-16A#B00	CR03AM-16A#BD0
CR04AM-12A-TB#B00	CR04AM-12A-TB#BD0
CR05AM-16A#B00	CR05AM-16A#BD0
CR05BM-12A#B00	CR05BM-12A#BD0

Appendix B: Change Details

Items		Current	New
JEITA PKG Code		SC-43A	SC-43A
Renesas PKG Name		TO-92*	TO-92
Renesas PKG Code		PRSS0003EA-A	PRSS0003DJ-A
Production Site	Wafer Fab	No Change (Renesas Semiconductor Manufacturing Co., Ltd. (Japan))	
	Assembly & Test	MICRO ELECTRONICS LTD. (China)	ASE (Weihai), Inc. (China)
Die		No Change	
Ratings & Characteristics		No Change (Except for CR02AM-8)	
Mechanical Ratings & Thermal Characteristics		No Change	
Reliability		No Change or Upgraded (Quality Grade of CR02AM-8 is Upgraded from Q2B to Q2A)	
Bonding Wire		Au ϕ 50 μ m	Cu ϕ50μm Cu ϕ 50 μ m (except for CR02AM-8) Cu ϕ 38 μ m (CR02AM-8)
Die Attach		High Melting Point Solder (Containing Pb)	Ag Paste (Pb Free)
Terminal Finish		Sn-Cu Dipping	Sn Dipping
Mold		Epoxy Resin UL94 V-0	Epoxy Resin (Halogen-Free) UL94 V-0
RoHS		RoHS Compliant (Containing Pb exempted from EU RoHS)	RoHS Compliant (Completely Pb-free)
Halogen-Free		Halogen Containing	Halogen-Free
Lead Forming Type		Straight, A6, A8 (same as taping), A2, A9, & AB	Straight, A6, & A8 (same as taping)
Bulk Packing	Qty. / Bag	MAX 500 pcs. / bag	MAX 1,000 pcs. / bag (Straight, A6) MAX 500 pcs. / bag (A8) MAX 1,000 pcs. / bag
	Qty. / Box	MAX 6 bags / box MAX 5 bags / box (AB forming)	MAX 4 bags / box (Straight, A6) MAX 6 bags / box (A8) MAX 3 bags / box (A8)
	Box Size	123(L) x 123(W) x 89(H) (mm)	196(L) x 115(W) x 84(H) (mm)
Tape Packing	Qty.	2000 pcs. / box	2000 pcs. / box
	Box size	330(L) x 180(W) x 50(H) (mm)	340(L) x 184(W) x 40(H) (mm)

Appendix C: Appearance Details

Items	Current	New
JEITA PKG Code	SC-43A	SC-43A
Renesas PKG Name	TO-92*	TO-92
Renesas PKG Code	PRSS0003EA-A	PRSS0003DJ-A
Appearance & Marking (Example)		
Pin Assignment	No Change	

Appendix D: Package Dimensions Details

Items	Current	New
JEITA PKG Code	SC-43A	SC-43A
Renesas PKG Name	TO-92*	TO-92
Renesas PKG Code	PRSS0003EA-A	PRSS0003DJ-A
Straight Lead	<p>Unit: mm</p>	<p>Unit: mm</p>
	<p>A6, A8, A2, A9, AB</p>	<p>A6, A8</p>
Lead Forming	<p>A6</p> <p>Unit: mm</p>	<p>Unit: mm</p>
	<p>A8</p> <p>Unit: mm</p>	<p>Unit: mm</p>

Appendix D: Package Dimensions Details (cont.)

Items	Current	New
JEITA PKG Code	SC-43A	SC-43A
Renesas PKG Name	TO-92*	TO-92
Renesas PKG Code	PRSS0003EA-A	PRSS0003DJ-A
Lead Forming	A6, A8, A2, A9, AB	A6, A8
A2	<p>Unit: mm</p>	Not supported
A9	<p>Unit: mm</p>	Not supported
AB	<p>Unit: mm</p>	Not supported A6 is recommended