

## Product Change Notification

(Notification - P1805029-DIGI)

(BL201800894)

May 21, 2018

**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 notification announces an assembly and test site change for select Thyristor and Triac (with TO-220ABS package) devices from SP Semiconductor & Communication Co., Ltd. (SP) to Advanced Semiconductor Engineering Inc. (ASE). See the Appendix for additional details.

There is a change to the part number, form & fit. There is no change to electrical characteristics or product reliability.

**Affected Products:** A review of our records indicates the list of products in Appendix 1 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 product using the new assembly and test site.
---

<b>August 15<sup>th</sup>, 2018</b>
-------------------------------------

**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 objections to the notification. If the customer does not make any objections to this notification within 90 days of the receipt of the notification, then Renesas will consider the notification as approved. If the 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 1: Digi-Key Part List

Booking Part Number	Replacement PN
BCR5CM-12RA#BB0	BCR5CM-12RA#BH0
BCR5CM-12LB#BB0	BCR5CM-12LB#BH0
BCR5CM-12LB-1#BB0	BCR5CM-12LB-1#BH0
BCR6CM-12RA#BB0	BCR6CM-12RA#BH0
BCR6CM-12LB#BB0	BCR6CM-12LB#BH0
BCR8CM-12LB#BB0	BCR8CM-12LB#BH0
BCR10CM-12LB#BB0	BCR10CM-12LB#BH0
BCR12CM-12LB#BB0	BCR12CM-12LB#BH0
BCR16CM-12LB#BB0	BCR16CM-12LB#BH0
BCR16CM-12LC#BB0	BCR16CM-12LC#BH0
BCR20CM-12LB#BB0	BCR20CM-12LB#BH0
BCR25CM-12LB#BB0	BCR25CM-12LB#BH0
BCR30CM-8LB#BB0	BCR30CM-8LB#BH0
BCR4CM-16LH#BB0	BCR4CM-16LH#BH0
BCR4CM-16LH-1#BB0	BCR4CM-16LH-1#BH0
BCR10CM-16LH#BB0	BCR10CM-16LH#BH0
BCR12CM-16LH#BB0	BCR12CM-16LH#BH0
BCR16CM-16LH#BB0	BCR16CM-16LH#BH0
BCR12CM-16LB#BB0	BCR12CM-16LB#BH0
BCR16CM-16LB#BB0	BCR16CM-16LB#BH0
BCR20CM-16LB#BB0	BCR20CM-16LB#BH0
CR6CM-12B#BB0	CR6CM-12B#BH0
CR8CM-12B#BB0	CR8CM-12B#BH0
CR12CM-12B#BB0	CR12CM-12B#BH0

## Appendix 2: Change Details

Items		Current	New	
Package Name		TO-220ABS	TO-220ABA	
Renesas PKG Code		PRSS0004AG-A	PRSS0004AT-A	
Production Site	Wafer Fab	No change (Renesas Semiconductor Manufacturing Co., Ltd. (Japan))		
	Assembly & Test	SP Semiconductor & Communication Co., Ltd. (Korea)	Advanced Semiconductor Engineering Inc. (China)	
Die		No change		
Rating & Characteristics		No change		
Reliability		No change		
Appearances (example)				
Pin assignment		No change		
Marking (example)				
Materials	Die	No change		
	Lead frame	Cu alloy	Cu alloy	
	Inner wire	T1(K)	Al	Al
		G	Al	Al
	Mold	Epoxy resin (UL94 V-0)	Epoxy resin (UL94 V-0)	
	Die attach	High melting point solder	High melting point solder	
Terminal finish	Sn plating	Sn plating		
RoHS		RoHS Compliant (Containing Pb exempted from EU RoHS)		
Lead forming type		A8, AS, AR, AP, J6	Not supported (Straight lead only)	
Packing (Straight lead)	Qty / tube	50 pcs / tube	50 pcs / tube	
	Qty / box	20 tube / box	20 tube / box	
	box size	570(L)x155(W)x50(H) (mm)	535(L)x145(W)x42(H) (mm)	

### Appendix 3a: Package Dimensions (Straight Lead Type)

Items	Current			New		
Package Name	TO-220ABS			TO-220ABA		
Renesas PKG Code	PRSS0004AG-A			PRSS0004AT-A		
Package Dimensions (Unit:mm)						
Ref.	MIN	NOM	MAX	MIN	NOM	MAX
A	4.30	4.50	4.70	4.30	4.50	4.70
A1	1.25	1.30	1.40	1.25	1.30	1.40
A2	-	-	2.60	-	-	2.60
b	0.70	0.80	0.90	0.70	0.80	0.90
b1	-	-	1.62	-	-	1.62
c	0.45	0.50	0.60	0.45	0.50	0.60
D	9.00	9.20	9.40	9.00	9.20	9.40
D1	15.5	15.7	15.9	-	-	-
D2	-	-	-	-	-	18.95
E	9.80	10.00	10.20	9.80	10.00	10.20
E1	9.70	9.90	10.10	9.70	9.90	10.10
e	-	2.54	-	-	2.54	-
G	2.7	2.8	2.9	2.8	3.0	3.2
L	12.68	12.98	13.28	-	-	-
L1	12.88	13.08	13.28	9.78	10.08	10.38
L2	-	(3.00)	-	-	(3.00)	-
□P	3.4	3.6	3.8	3.5	3.6	3.7

### Appendix 3b: Package Dimensions (Lead Forming Type)

Items	Current	New
Package Name	TO-220ABS	TO-220ABA
Renesas PKG Code	PRSS0004AG-A	PRSS0004AT-A
Lead forming	A8, AS, AR, AP, J6	Not supported
A8		Not supported (Straight lead only)
AS		Not supported (Straight lead only)
AR		Not supported (Straight lead only)
AP		Not supported (Straight lead only)
J6		Not supported (Straight lead only)