

Product Change Notification

(Notification – P2006029-DIG)

(BL202001068)

June 15, 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.

For select Thyristor & Triac devices in the TO-220F package, this notification announces the following changes (see the Appendix for details).

1. Package change from TO-220F to TO-220FPA
2. Assembly & Test Site change from Micro Electronics, Ltd. (China) to ASE, Inc. (Weihai, China)
3. 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.
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September 1, 2020

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 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 List

Booking Part Number	Replacement PN	Booking Part Number	Replacement PN
BCR3PM-12LG#B00	BCR3FM-12LB#BG0	BCR12PM-12LAA8#B00	BCR12FM-12LBA8#BH0
BCR3PM-14LG#B00	BCR3FM-14LB#BG0	BCR12PM-12LG#B00	BCR12FM-12LB#BG0
BCR5PM-12LG#B00	BCR5FM-12LB#BG0	BCR12PM-12LC#B00	BCR12FM-12LC#BG0
BCR5PM-14LG#B00	BCR5FM-14LB#BG0	BCR12PM-12LD#B00	BCR12FM-12LC#BG0
BCR5PM-14LD#B00	BCR5FM-14LC#BG0	BCR12PM-14LG#B00	BCR12FM-14LB#BG0
BCR5PM-14LD-A8#B00	BCR5FM-14LC-A8#BG0	BCR12PM-14LJ#B00	BCR12FM-14LJ#BG0
BCR5PM-14LJ#B00	BCR5FM-14LJ#BG0	BCR16PM-12LA#B00	BCR16FM-12LB#BH0
BCR8PM-12LA#B00	BCR8FM-12LB#BH0	BCR16PM-12LG#B00	BCR16FM-12LB#BG0
BCR8PM-12LB#B01	BCR8FM-12LB#BH0	BCR16PM-12LC#B00	BCR16FM-12LC#BG0
BCR8PM-12LE#B00	BCR8FM-12LB#BG0	BCR16PM-12LD#B00	BCR16FM-12LC#BG0
BCR8PM-12LG#B00	BCR8FM-12LB#BG0	BCR16PM-14LG#B00	BCR16FM-14LB#BG0
BCR8PM-12LD#B00	BCR8FM-12LC#BG0	BCR16PM-14LJ#B00	BCR16FM-14LJ#BH0
BCR8PM-14LE#B00	BCR8FM-14LB#BG0	BCR16PM-16LH#B00	BCR16FM-16LH#BG0
BCR8PM-14LG#B00	BCR8FM-14LB#BG0	BCR16PM-16LH-1#B00	BCR16FM-16LH-1#BG0
BCR8PM-14LJ#B00	BCR8FM-14LJ#BG0	BCR16PM-16LH-1#COA	BCR16FM-16LH-1#BG0
BCR8PM-16LG#B00	BCR8FM-16LB#BG0	BCR20PM-14LJ#B00	BCR20FM-14LJ#BH0
BCR8PM-20LA#B00	BCR8FM-20LA#BH0	BCR25PM-14LJ#B00	BCR25FM-14LJ#BH0
BCR10PM-12LG#B00	BCR10FM-12LB#BG0	CR3PM-12G#B00	CR3CS-12A-A1#BH0
BCR10PM-12LD#B00	BCR10FM-12LC#BG0	CR6PM-12G#B00	CR6FM-12B#BG0
BCR10PM-14LJ#B00	BCR10FM-14LJ#BG0	CR8PM-12B#B00	CR8FM-12B#BH0
BCR12PM-12LA#B00	BCR12FM-12LB#BH0	CR12PM-12B#B00	CR12FM-12B#BH0

Appendix B: Change Details

Items		Current		New		
Package Name		TO-220F		TO-220FPA		
Renesas PKG Code		PRSS0003AA-A		PRSS0003A P-A		
Production Sites	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		Same or Higher				
Reliability		Same or Higher				
Materials	Die	No Change				
	Lead Frame	Cu Alloy				
	Inner Wire	T1(K)	Al			
		G	Al			
	Mold	Epoxy Resin (UL94 V-0)				
	Die Attach	High Melting Point Solder				
	Terminal Finish	Sn-Cu Dipping		Sn Plating		
RoHS	RoHS Compliant (Containing Pb exempted from EU RoHS)					
UL1557	UL Recognized UL File No.E223904		Not Applied to UL (All the products passed the inspection equivalent to the UL standard.)			
Lead Forming Type	Straight, A8, AS, AR, A5, A6, AA, AK, AM, AN, AQ, AT, AV, & JL		Straight, A8, AS, & AR			
Packing		Straight Lead Type	Lead Forming Type (and spec#C0G)	Straight Lead Type	Lead Forming Type	
	Standard Min. Packing	Plastic Bag 100 pcs. / bag	Tube 50 pcs. / tube	Tube 50 pcs. / tube	Tube 50 pcs. / tube	
	Qty / box	5 bags / box	10 tubes / box	50 tubes / box	20 tubes / box	
	Box Size (L×W×H)	123×123×89 (mm)	573×116×79 (mm)	575×188×94 (mm)	577×169×107 (mm)	

Appendix C: Appearance Details (Excluding CR3PM-12G)

Items	Current	New	
Package Name	TO-220F	TO-220FPA	
Renesas PKG Code	PRSS0003AA-A	PRSS0003A P-A	
Appearance (Example)	 <p style="text-align: center;">T1 T2 G (K)(A)</p>	 <p style="text-align: center;">T1 T2 G (K)(A)</p>	
Pin Assignment	No Change		
Marking (Example)	<p style="text-align: right;">Factory Code (A)</p> 	<p>#BG0 #BG* #CG*</p> <p style="text-align: center;">Factory Code (K)</p> 	<p>#BH0 #BH* #CH*</p> <p style="text-align: center;">Factory Code (K)</p>  <p style="text-align: center;">Internal Code(B)</p>

Appendix D: Package Dimensions Details - Straight Lead Type (Excluding CR3PM-12G)

Items	Current			New		
Package Name	TO-220F			TO-220FPA		
Renesas PKG Code	PRSS0003AA-A			PRSS0003A P-A		
Package Dimensions (Unit: mm)						
Ref.	MIN	NOM	MAX	MIN	NOM	MAX
A	-	4.5	-	-	4.5	-
A1	-	2.6	-	-	2.6	-
b	-	0.8	-	-	0.69	-
b1	-	1.3	-	-	1.14	-
c	-	0.5	-	-	0.6	-
c1	-	2.8	-	-	2.7	-
D	-	17	-	-	15	-
E	-	-	10.5	-	-	10.3
e	-	2.54	-	-	2.54	-
L	13.5	-	-	12.5	-	-
L1	-	3.6	-	-	1.95	-
L2	-	12	-	-	12	-
φP	3.0	3.2	3.4	3.0	3.2	3.4

Appendix D: Package Dimensions Details (cont.) - Straight Lead Type (Excluding CR3PM-12G)

Items	Current			New		
Package Name	TO-220F			TO-220FPA		
Renesas PKG Code	PRSS0003AA-A			PRSS0003A P-A		
Lead Forming	A8	AS	AR	A8	AS	AR
	A5	A6	AA	Not Supported	Not Supported	Not Supported
	AK	AM	AN	Not Supported	Not Supported	Not Supported (Recommend AS)
	AQ	AT	AV	Not Supported	Not Supported	Not Supported
JL			Not Supported			