

## Product Change Notice (PCN)

**Subject:** Mold compound change for TO-220ABA, TO-262, TO-263 package Triac and Thyristor

**Publication Date:** 7/24/2023

**Effective Date:** 1/1/2024

Renesas reserves the right to ship either version manufactured after the process change effective date until the inventory on the earlier version has been depleted.

**Revision Description:**

Initial release

**Description of Change:**

Mold compound for TO-220ABA, TO-262, TO-263 package Triac and Thyristor will be changed to a new qualified Halogen-free material. (See Appendix 2)

**Affected Product:**

TO-220ABA, TO-262, TO-263 package Triac and Thyristor (See Appendix 1 for affected part numbers)

**Reason for Change:**

End of Life of the Halogen-included molding compound material

**Impact on Fit, Form, Function, Quality & Reliability:**

No impact on Fit, Form, Function, Quality & Reliability

**Product Identification:**

Identified by trace code on the product or label. Please contact your Renesas sales representative. No change in ordering part number, marking and label indications.

**Qualification Status:** Please contact your local field sales representative.

**Sample Availability Date:** Samples are not available. Please contact your local field sales representative.

**Device Material Declaration:** Please contact your local field sales representative.

- Note:
1. Acknowledgement must be received by Renesas within 30 days or Renesas will consider the change as approved.
  2. If timely acknowledgement is provided by Customer, then Customer shall have 90 days from the date of receipt of this PCN to make any objections to this PCN. If Customer fails to make objections to this PCN within 90 days of the receipt of the PCN then Renesas will consider the PCN changes as approved.
  3. If customer cannot accept the PCN then customer must provide Renesas with a last time buy demand and purchase order

**For additional information regarding this notice, please contact your Renesas sales representative.**

## Appendix 1.

### Affected part number list

#### 1) T0-220ABA package

(Renesas PKG code: PRSS0004AT-A)

Catalogue P/N	Ordering P/N
BCR4CM-16LH	BCR4CM-16LH#BHO BCR4CM-16LH-1#BHO
BCR5CM-12LB	BCR5CM-12LB#BHO BCR5CM-12LB-1#BHO
BCR5CM-12RA	BCR5CM-12RA#BHO
BCR6CM-12LB	BCR6CM-12LB#BHO BCR6CM-12LB-1#BHO
BCR6CM-12RA	BCR6CM-12RA#BHO
BCR8CM-12LB	BCR8CM-12LB#BHO BCR8CM-12LB-1#BHO
BCR10CM-12LB	BCR10CM-12LB#BHO BCR10CM-12LB-1#BHO
BCR10CM-16LH	BCR10CM-16LH#BHO BCR10CM-16LH-1#BHO
BCR12CM-12LB	BCR12CM-12LB#BHO BCR12CM-12LB-1#BHO
BCR12CM-16LB	BCR12CM-16LB#BHO
BCR12CM-16LH	BCR12CM-16LH#BHO BCR12CM-16LH-1#BHO
BCR16CM-12LB	BCR16CM-12LB#BHO BCR16CM-12LB-1#BHO
BCR16CM-12LC	BCR16CM-12LC#BHO
BCR16CM-16LB	BCR16CM-16LB#BHO
BCR16CM-16LH	BCR16CM-16LH#BHO BCR16CM-16LH-1#BHO
BCR20CM-12LB	BCR20CM-12LB#BHO BCR20CM-12LB-1#BHO
BCR20CM-16LB	BCR20CM-16LB#BHO
BCR25CM-12LB	BCR25CM-12LB#BHO
BCR30CM-8LB	BCR30CM-8LB#BHO
CR6CM-12A	CR6CM-12A#BHO
CR6CM-12B	CR6CM-12B#BHO
CR8CM-12A	CR8CM-12A#BHO
CR8CM-12B	CR8CM-12B#BHO
CR12CM-12A	CR12CM-12A#BHO
CR12CM-12B	CR12CM-12B#BHO

#### 2) T0-262 package

(Renesas PKG code: PRSS0004AR-A)

Catalogue P/N	Ordering P/N
BCR8CS-12LB	BCR8CS-12LB-A1#BHO
BCR10CS-12LB	BCR10CS-12LBA1#BHO
BCR12CS-12LB	BCR12CS-12LBA1#BHO
BCR16CS-16LB	BCR16CS-16LBA1#BHO
CR3CS-12A	CR3CS-12A-A1#BHO
CR12CS-16B	CR12CS-16B-A1#BHO

#### 3) T0-263 package

(Renesas PKG code: PRSS0004AS-A)

Catalogue P/N	Ordering P/N
BCR8CS-12LB	BCR8CS-12LB#BHO BCR8CS-12LB-T1#BHO
BCR10CS-12LB	BCR10CS-12LB#BHO BCR10CS-12LBT1#BHO
BCR12CS-12LB	BCR12CS-12LB#BHO BCR12CS-12LBT1#BHO BCR12CS-12LBT2#BHO
BCR16CS-16LB	BCR16CS-16LB#BHO BCR16CS-16LBT1#BHO
CR3CS-12A	CR3CS-12A-T1#BHO CR3CS-12A-T2#BHO
CR12CS-16B	CR12CS-16B#BHO CR12CS-16B-T1#BHO CR12CS-16B-T2#BHO

## Appendix 2.

### Details of Change

Items		Current	New
Mold compound		Halogen-included epoxy resin	Halogen-free epoxy resin
	Flame retardant	Brominated	Organic (Halogen-free)
	Flammability	No change (UL94 V-0)	
Prod. Site	Wafer fab	No change (Renesas Semiconductor Manufacturing Co., Ltd. (Japan))	
	Assy & Test	No change (ATX Semiconductor (Weihai) Co., Ltd. (China))	
Die		No change	
Ratings & Characteristics		No change	
Reliability		No change	
Soldering heat		No change	
Marking		No change	