

## Product / Process Change Notice

### Parts Affected:

General purpose rectifiers manufactured in SMA, SMB, DIP and SMDIP cases.

### Extent of Change:

Additional wafer fab site.

### Reason for Change:

As part of Central Semiconductor's supply chain risk mitigation initiative, in an effort to ensure uninterrupted supply of product, an additional wafer fabrication site is being added for the referenced product families. Product specifications, quality and reliability are not impacted by this addition.

### Effect of Change:

This addition does not affect the fit, form or function of the devices.

### Qualification:

Test	Condition	Duration	Failure rate
<b>Pre Conditioning(P.C)</b> <b>(SMD qualification parts</b> <b>before test T.C., A.C,</b> <b>T.H.B , I.O.L and R.S.H)</b>	1. TCT -55~+150 °C ,5 cycle 2. Bake 125 +5/-0 °C , 24hours 3. Temperature humidity 85°C/85%RH, 168hours 4. Reflow 3 times	1 Cycle	0/77 3 Lots
<b>Temperature Cycling</b> <b>(T.C.)</b>	TA= -55+0°C/-10°C 10min(Min) TA= +150+15°C/-0°C 10min(Min) Transfer time less than 1min. The load should reach temp. within 15min	1000 Cycles	0/77 3 Lots
<b>High Temperature</b> <b>Reverse Bias (HTRB)</b>	TA=140°C, VR=100%VB DC supply	1000 Hours	0/77 3 Lots
<b>Resistance to Solder</b> <b>Heat (R.S.H.)</b>	T =260°C ±5°C Dwell time = 10 sec.	1 Cycle	0/30 3 Lots
<b>Intermittent</b> <b>Forward</b> <b>Operation Life (I.O.L.)</b>	I=1.0 × IF DC supply On time: 2mins at least, Off time: 2mins at least	15,000 Cycles	0/77 3 Lots
<b>Autoclave (A.C.)</b>	Temperature = 121°C ± 2°C; relative humidity = 100%; vapor pressure = 29.7 psia (15psig)	96 Hours	0/77 3 Lots
<b>High Humidity High</b> <b>Temperature Reverse</b> <b>Bias (H3TRB)</b>	TA=85°C+/-2°C RH=85%+/-5% VR=80%VB(customer spec.) DC Supply	1000 Hours	0/77 3 Lots
<b>Solderability (SD)</b>	Temperature of solder Pb free: POT=245±5°C Solder immersion time=5±0.5 sec Dipping depth= within 1.27mm of the body.	1 Cycle	0/10 3 Lots



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<https://www.centra-semi.com/process-change-notice>

**PCN #192**  
**Notification Date:**  
**July 29, 2020**

**Effective Date of Change:**

Existing inventory will be shipped until depleted.

**Sample Availability:**

Please contact your salesperson or manufacturer's representative for samples.

**Part Numbers Affected:**

SMA case	SMB case	DIP case	SMDIP case
CMR1-005M	CMR1-02	CBR1-D010	CBR2-D100S
CMR1-01M	CMR1-04	CBR1-D020	
CMR1-06M	CMR1-06	CBR1-D040	
CMR1-10M	CMR1-10	CBR1-D060	
	CMR2-02	CBR1-D080	
	CMR2-04	CBR1-D100	
	CMR2-06		
	CMR2-10		

As per JEDEC standard JESD46, Customer Notification of Product/Process Changes by Solid-State Suppliers, a lack of acknowledgement of a PCN within thirty (30) days constitutes acceptance of the change.

The undersigned acknowledges and accepts Central Semiconductor's Product/Process Change Notification (PCN).

Company Name:	
Address:	
Printed Name:	
Title:	
Signature:	
Date:	