

**PCN # 232**  
**Notification Date:**  
**April 7, 2022**

## Product / Process Change Notice

**Parts Affected:**

All products manufactured in the SMB package.

**Extent of Change:**

The internal lead frame is being changed to optimize assembly flow from a semi-automatic to a fully automatic assembly process.

**Reason for Change:**

This change will enhance manufacturability and minimize potential supply disruption; electrical performance and overall mechanical outline of the package are unchanged.

**Effect of Change:**

This change does not affect the form, fit, or function of any device.

**Qualification:**

Test	Condition	Duration	Failure rate
<b>Temperature Cycling (TC)</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 2 Lots
<b>High Temperature Reverse Bias (HTRB)</b>	TA=140°C, VR=100%VB DC Supply	1000 Hours	0/77 2 Lots
<b>Resistance to Solder Heat (RSH)</b>	T =260°C ±5°C Dwell time = 10 sec.	1 Cycle	0/30 2 Lots
<b>Intermittent Operation Life (IOL)</b>	ΔTJ ≥100°C On time: 2mins at least, Off time: 2mins at least	15,000 Cycles	0/77 2 Lots
<b>Autoclave (AC)</b>	Temperature = 121°C ± 2°C; relative humidity = 100%; vapor pressure = 29.7 psia (15psig)	96 Hours	0/77 2 Lots
<b>High Temperature High Humidity Reverse Bias (THB)</b>	TA=85°C, RH=85% VR=80%VB DC Supply	1000 Hours	0/77 2 Lots
<b>Solderability (SD)</b>	Temperature of solder Pb free: POT=245±5°C Solder immersion time=5±0.5 sec	1 Cycle	0/10 2 Lots
<b>Forward Surge Current (FSC)</b>	Square or Sine wave IFSM=data sheet spec Duration of pulses (tp)=8.3ms	1 Cycles	0/22 2 Lots

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**Earliest Effective Date of Change:**

April 7, 2022

**Sample Availability:**

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

**Part Numbers Affected:**

Standard recovery rectifiers

CMR1-02	CMR1-06	CMR1-10	CMR2-04	CMR2-10
CMR1-04	CMR1-08	CMR2-02	CMR2-06	

SuperFast recovery rectifiers

CMR1S-01	CMR1S-04	CMR2S-02	CMR2S-06
CMR1S-02	CMR1S-06	CMR2S-04	

UltraFast recovery rectifiers

CMR1U-01	CMR1U-08	CMR2U-04	CMR2U-10	CMR3U-06M
CMR1U-02	CMR1U-10	CMR2U-04	CMR3U-01M	CMR3U-08M
CMR1U-04	CMR2U-01	CMR2U-06	CMR3U-02M	CMR3U-10M
CMR1U-06	CMR2U-02	CMR2U-08	CMR3U-04M	

Schottky rectifiers

CMSH1-20	CMSH2-20L	CMSH2-100	CMSH3-100M
CMSH1-40	CMSH2-20	CMSH3-20M	CMSH3-100MHV
CMSH1-60	CMSH2-40	CMSH3-40M	CMSH3-150MHV
CMSH1-100	CMSH2-60	CMSH3-60M	CMSH3-200MHV

Transient voltage suppressors (TVS)

P6SMB6.8A / CA	P6SMB15A / CA	P6SMB33A / CA	P6SMB68A / CA	P6SMB150A / CA
P6SMB7.5A / CA	P6SMB16A / CA	P6SMB36A / CA	P6SMB75A / CA	P6SMB160A / CA
P6SMB8.2A / CA	P6SMB18A / CA	P6SMB39A / CA	P6SMB82A / CA	P6SMB170A / CA
P6SMB9.1A / CA	P6SMB20A / CA	P6SMB43A / CA	P6SMB91A / CA	P6SMB180A / CA
P6SMB10A / CA	P6SMB22A / CA	P6SMB47A / CA	P6SMB100A / CA	P6SMB200A / CA
P6SMB11A / CA	P6SMB24A / CA	P6SMB51A / CA	P6SMB110A / CA	P6SMB220A / CA
P6SMB12A / CA	P6SMB27A / CA	P6SMB56A / CA	P6SMB120A / CA	P6SMB250A / CA
P6SMB13A / CA	P6SMB30A / CA	P6SMB62A / CA	P6SMB130A / CA	

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Transient voltage suppressors (TVS) continued:

1SMB5.0A / CA	1SMB12A / CA	1SMB26A / CA	1SMB54A / CA	1SMB110A / CA
1SMB6.0A / CA	1SMB13A / CA	1SMB28A / CA	1SMB58A / CA	1SMB120A / CA
1SMB6.5A / CA	1SMB14A / CA	1SMB30A / CA	1SMB60A / CA	1SMB130A / CA
1SMB7.0A / CA	1SMB15A / CA	1SMB33A / CA	1SMB64A / CA	1SMB150A / CA
1SMB7.5A / CA	1SMB16A / CA	1SMB36A / CA	1SMB70A / CA	1SMB160A / CA
1SMB8.0A / CA	1SMB17A / CA	1SMB40A / CA	1SMB75A / CA	1SMB170A / CA
1SMB8.5A / CA	1SMB18A / CA	1SMB43A / CA	1SMB78A / CA	
1SMB9.0A / CA	1SMB20A / CA	1SMB45A / CA	1SMB85A / CA	
1SMB10A / CA	1SMB22A / CA	1SMB48A / CA	1SMB90A / CA	
1SMB11A / CA	1SMB24A / CA	1SMB51A / CA	1SMB100A / CA	

Zener diodes:

CMZ5919BP	CMZ5927BP	CMZ5935BP	CMZ5943BP	CMZ5951BP
CMZ5920BP	CMZ5928BP	CMZ5936BP	CMZ5944BP	CMZ5952BP
CMZ5921BP	CMZ5929BP	CMZ5937BP	CMZ5945BP	CMZ5953BP
CMZ5922BP	CMZ5930BP	CMZ5938BP	CMZ5946BP	CMZ5954BP
CMZ5923BP	CMZ5931BP	CMZ5939BP	CMZ5947BP	CMZ5955BP
CMZ5924BP	CMZ5932BP	CMZ5940BP	CMZ5948BP	CMZ5956BP
CMZ5925BP	CMZ5933BP	CMZ5941BP	CMZ5949BP	
CMZ5926BP	CMZ5934BP	CMZ5942BP	CMZ5950BP	

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:	