

**Product / Process Change Notice**

**Parts Affected:**

All products manufactured in the SMA 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

**PCN #233**  
**Notification Date:**  
**April 21, 2022**

**Earliest Effective Date of Change:**

April 21, 2022

**Sample Availability:**

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

**Part Numbers Affected:**

Standard recovery rectifiers

CMR1-005M	CMR1-01M	CMR1-02M	CMR1-04M	CMR1-06M	CMR1-10M
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Fast recovery rectifiers

CMR1F-02M	CMR1F-04M	CMR1F-06M	CMR1F-10M
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UltraFast recovery rectifiers

CMR1U-01M	CMR1U-02M	CMR1U-04M	CMR1U-06M	CMR1U-10M	CMR1U-13M
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Schottky rectifiers

CMSH1-20M	CMSH1-20ML	CMSH1-80HE	CMSH2-20M	CMSH3-20MA
CMSH1-40M	CMSH1-40ML	CMSH1-100HE	CMSH2-40M	CMSH3-40MA
CMSH1-60M	CMSH1-40HE	CMSH1-150HE	CMSH2-60M	CMSH3-60MA
CMSH1-100M	CMSH1-60HE	CMSH1-200HE	CMSH2-100M	CMSH3-100MA

Transient voltage suppressors (TVS)

SMA6J6.0CA	SMA6J10CA	SMA6J17CA	SMA6J28CA	SMA6J48CA
SMA6J6.5CA	SMA6J11CA	SMA6J18CA	SMA6J30CA	SMA6J51CA
SMA6J7.0CA	SMA6J12CA	SMA6J19CA	SMA6J33CA	SMA6J54CA
SMA6J7.5CA	SMA6J13CA	SMA6J20CA	SMA6J36CA	SMA6J58CA
SMA6J8.0CA	SMA6J14CA	SMA6J22CA	SMA6J40CA	
SMA6J8.5CA	SMA6J15CA	SMA6J24CA	SMA6J43CA	
SMA6J9.0CA	SMA6J16CA	SMA6J26CA	SMA6J45CA	

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Zener diodes

CMZ5919B	CMZ5926B	CMZ5933B	CMZ5940B	CMZ5947B	CMZ5954B
CMZ5920B	CMZ5927B	CMZ5934B	CMZ5941B	CMZ5948B	CMZ5955B
CMZ5921B	CMZ5928B	CMZ5935B	CMZ5942B	CMZ5949B	CMZ5956B
CMZ5922B	CMZ5929B	CMZ5936B	CMZ5943B	CMZ5950B	
CMZ5923B	CMZ5930B	CMZ5937B	CMZ5944B	CMZ5951B	
CMZ5924B	CMZ5931B	CMZ5938B	CMZ5945B	CMZ5952B	
CMZ5925B	CMZ5932B	CMZ5939B	CMZ5946B	CMZ5953B	

Custom part number

CEN1145

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:	