



145 Adams Avenue, Hauppauge, NY 11788, USA
 Tel: 1.631.435.1110 Fax: 1.631.435.1824
 www.centalsemi.com

<mailto:processchange@centalsemi.com>

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

PCN # 231
Notification Date:
March 25, 2022

Product / Process Change Notice

Parts Affected:

All products manufactured in the SMC 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
Temperature Cycling (TC)	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
High Temperature Reverse Bias (HTRB)	TA=140°C, VR=100%VB DC Supply	1000 Hours	0/77 2 Lots
Resistance to Solder Heat (RSH)	T =260°C ±5°C Dwell time = 10 sec.	1 Cycle	0/30 2 Lots
Intermittent Operation Life (IOL)	ΔTJ ≥100°C On time: 2mins at least, Off time: 2mins at least	15,000 Cycles	0/77 2 Lots
Autoclave (AC)	Temperature = 121°C ± 2°C; relative humidity = 100%; vapor pressure = 29.7 psia (15psig)	96 Hours	0/77 2 Lots
High Temperature High Humidity Reverse Bias (THB)	TA=85°C, RH=85% VR=80%VB DC Supply	1000 Hours	0/77 2 Lots
Solderability (SD)	Temperature of solder Pb free: POT=245±5°C Solder immersion time=5±0.5 sec	1 Cycle	0/10 2 Lots
Forward Surge Current (FSC)	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:

March 28, 2022

Sample Availability:

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

Part Numbers Affected:

Standard recovery rectifiers

CMR3-02	CMR3-04	CMR3-06	CMR3-08	CMR3-10	CMR3-11
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SuperFast recovery rectifiers

CMR3S-01	CMR3S-02	CMR3S-04	CMR3S-06
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UltraFast recovery rectifiers

CMR3U-01	CMR3U-02	CMR3U-04	CMR3U-06	CMR3U-10
CMR5U-02	CMR5U-04	CMR5U-06	CMR5U-08	

Schottky rectifiers

CMSH3-20	CMSH3-40	CMSH3-60	CMSH3-100	CMSH3-20L	CMSH3-40L	
CMSH5-20	CMSH5-40	CMSH5-60	CMSH5-100	CMSH5-100HV	CMSH5-150HV	CMSH5-200HV
CMSH8-40						

Transient voltage suppressors (TVS)

1.5SMC6.8A / CA	1.5SMC15A / CA	1.5SMC33A / CA	1.5SMC68A / CA	1.5SMC150A / CA
1.5SMC7.5A / CA	1.5SMC16A / CA	1.5SMC36A / CA	1.5SMC75A / CA	1.5SMC160A / CA
1.5SMC8.2A / CA	1.5SMC18A / CA	1.5SMC39A / CA	1.5SMC82A / CA	1.5SMC170A / CA
1.5SMC9.1A / CA	1.5SMC20A / CA	1.5SMC43A / CA	1.5SMC91A / CA	1.5SMC180A / CA
1.5SMC10A / CA	1.5SMC22A / CA	1.5SMC47A / CA	1.5SMC100A / CA	1.5SMC200A / CA
1.5SMC11A / CA	1.5SMC24A / CA	1.5SMC51A / CA	1.5SMC110A / CA	1.5SMC220A / CA
1.5SMC12A / CA	1.5SMC27A / CA	1.5SMC56A / CA	1.5SMC120A / CA	
1.5SMC13A / CA	1.5SMC30A / CA	1.5SMC62A / CA	1.5SMC130A / CA	



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Transient voltage suppressors (TVS) continued:

1SMC5.0A / CA	1SMC12A / CA	1SMC26A / CA	1SMC54A / CA	1SMC110A / CA
1SMC6.0A / CA	1SMC13A / CA	1SMC28A / CA	1SMC58A / CA	1SMC120A / CA
1SMC6.5A / CA	1SMC14A / CA	1SMC30A / CA	1SMC60A / CA	1SMC130A / CA
1SMC7.0A / CA	1SMC15A / CA	1SMC33A / CA	1SMC64A / CA	1SMC150A / CA
1SMC7.5A / CA	1SMC16A / CA	1SMC36A / CA	1SMC70A / CA	1SMC160A / CA
1SMC8.0A / CA	1SMC17A / CA	1SMC40A / CA	1SMC75A / CA	1SMC170A / CA
1SMC8.5A / CA	1SMC18A / CA	1SMC43A / CA	1SMC78A / CA	
1SMC9.0A / CA	1SMC20A / CA	1SMC45A / CA	1SMC85A / CA	
1SMC10A / CA	1SMC22A / CA	1SMC48A / CA	1SMC90A / CA	
1SMC11A / CA	1SMC24A / CA	1SMC51A / CA	1SMC100A / CA	

3SMC5.0A / CA	3SMC12A / CA	3SMC26A / CA	3SMC54A / CA	3SMC110A / CA
3SMC6.0A / CA	3SMC13A / CA	3SMC28A / CA	3SMC58A / CA	3SMC120A / CA
3SMC6.5A / CA	3SMC14A / CA	3SMC30A / CA	3SMC60A / CA	3SMC130A / CA
3SMC7.0A / CA	3SMC15A / CA	3SMC33A / CA	3SMC64A / CA	3SMC150A / CA
3SMC7.5A / CA	3SMC16A / CA	3SMC36A / CA	3SMC70A / CA	3SMC160A / CA
3SMC8.0A / CA	3SMC17A / CA	3SMC40A / CA	3SMC75A / CA	3SMC170A / CA
3SMC8.5A / CA	3SMC18A / CA	3SMC43A / CA	3SMC78A / CA	
3SMC9.0A / CA	3SMC20A / CA	3SMC45A / CA	3SMC85A / CA	
3SMC10A / CA	3SMC22A / CA	3SMC48A / CA	3SMC90A / CA	
3SMC11A / CA	3SMC24A / CA	3SMC51A / CA	3SMC100A / CA	

5SMC33A	5SMC48A	5SMC64A	5SMC90A	5SMC150A
5SMC36A	5SMC51A	5SMC70A	5SMC100A	5SMC160A
5SMC40A	5SMC54A	5SMC75A	5SMC110A	5SMC170A
5SMC43A	5SMC58A	5SMC78A	5SMC120A	
5SMC45A	5SMC60A	5SMC85A	5SMC130A	

Zener diodes

CMZ5339B	CMZ5349B	CMZ5358B	CMZ5367B	CMZ5376B	CMZ5385B
CMZ5340B	CMZ5350B	CMZ5359B	CMZ5368B	CMZ5377B	CMZ5386B
CMZ5342B	CMZ5351B	CMZ5360B	CMZ5369B	CMZ5378B	CMZ5387B
CMZ5343B	CMZ5352B	CMZ5361B	CMZ5370B	CMZ5379B	CMZ5388B
CMZ5344B	CMZ5353B	CMZ5362B	CMZ5371B	CMZ5380B	
CMZ5345B	CMZ5354B	CMZ5363B	CMZ5372B	CMZ5381B	
CMZ5346B	CMZ5355B	CMZ5364B	CMZ5373B	CMZ5382B	
CMZ5347B	CMZ5356B	CMZ5365B	CMZ5374B	CMZ5383B	
CMZ5348B	CMZ5357B	CMZ5366B	CMZ5375B	CMZ5384B	



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Custom part numbers

CEN959	CEN1174	CEN1178-1	CEN1362	CEN1441
CEN987	CEN1176	CEN1237	CEN1412	
CEN1166	CEN1178	CEN1289	CEN1440	

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:	