

145 Adams Avenue, Hauppauge, NY 11788 USA Tel: (631) 435-110 • Fax: (631) 435-1824 w w w . c e n t r a l s e m i . c o m mailto:processchange@centralsemi.com http://www.centralsemi.com/processchange PCN #171 Notification Date: 22 April 2019

Product / Process Change Notice

Parts Affected:

Chip process CP391, N-Channel MOSFETs, wafers and bare die

Extent of Change:

The CP391 wafer process has been discontinued and replaced with the CP399 wafer process. See figures 1 and 2 for details.

Reason for Change:

The CP391 wafer process has been replaced to the CP399 wafer process in order to enhance the manufacturing process controls and performance. The wafer size has increased from 6 inch to 8 inch in order to improve throughput. In addition, this change is being made to ensure undisrupted supply of product, moving forward.

Effect of Change:

The wafer process meets all electrical specifications of the individual devices listed on the following page.

Qualification:

P/N: CP399 Chip Process Package: TO-220FP

Conditions No. Test (Reference standards are in Qtv Pass/Fail **Test Results** bold) **Device Life Tests** 1 **High Temperature** T=150°C, t = 1000 hours Gate Reverse Bias 100% VGS=30V 45 Pass 45/45 а (HTGB) JESD22-A110 **High Temperature** T=150°C, t = 1000 hours b **Reverse Bias** VDS=600V 45 Pass 45/45 (HTRB) JESD22-A108 **High Accelerated** T=130°C, t = 96 hours, 85%RH, Temperature and С 230kPA, VDS=42V 45 Pass 45/45 Humidity Stress JESD22-A108 Test (HAST) Temperature -65°C -+150°C, Tdwell ≥10min, D 45 45/45 Pass Cycling (TC) 500 cycles

Effective Date of Change:

Existing inventory of chip process CP391 will be shipped until depleted.



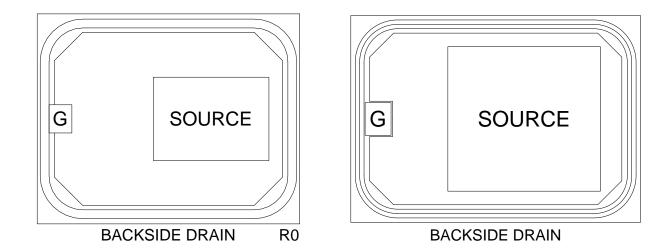
Tel: (631) 435-1110 Fax: (631) 435-1824 w w w c e n t r a l s e m i c o m mailto:processchange@centralsemi.com http://www.centralsemi.com/processchange PCN #171 Notification Date: 22 April 2019

Sample Availability:

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

Figure 1: CP391 Chip Geometry (Discontinued)

Figure 2: CP399 Chip Geometry



Wafer Diameter: Die Size: Die Thickness: Bond Pad Size (Gate): Bond Pad Size (Source): Topside Metal: Backside Metal:	AI (43,000Å)	Wafer Diameter: Die Size: Die Thickness: Bond Pad Size (Gate): Bond Pad Size (Source): Topside Metal: Backside Metal:	AI (43,000Å)
Backside Metal:	Ag (8000Å)	Backside Metal:	Ag (8000Å)

Part Numbers Affected:

CDM22011-600LRFP	CP391-CDM11-600L-WN
	CP391-CDM11-600L-CT



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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:	