

PCN #186
Notification Date:
June 12 2020

Product / Process Change Notice

Parts Affected:

Chip process, CP775, P-channel MOSFETs, wafers and bare die.

Extent of Change:

The CP775 wafer process has been discontinued and is being replaced with the CP802 wafer process. See Figures 1 and 2 for details.

Reason for Change:

The CP775 wafer process has been replaced in order to enhance manufacturing process controls and device performance. This change will help ensure an uninterrupted supply of product.

Effect of Change:

The CP802 wafer process meets all electrical specifications of the individual devices listed on the following page.

Qualification:

P/N: CP802X Chip Process Package: TO-220

No.	Test	Conditions (Reference standards are in bold)	Qty	Pass/Fail	Test Results
1	Device Life Tests				
A	High Temperature Gate Bias (HTGB)	T=150°C, t = 1000 hours 100% V _{GS} Negative Bias JESD22-A108	77	Pass	77/77
B	High Temperature Gate Bias (HTGB)	T=150°C, t = 1000 hours 100% V _{GS} Positive Bias JESD22-A108	77	Pass	77/77
C	High Temperature Reverse Bias (HTRB)	T=150°C, t = 1000 hours 100% V _{DS} JESD22-A108	77	Pass	77/77

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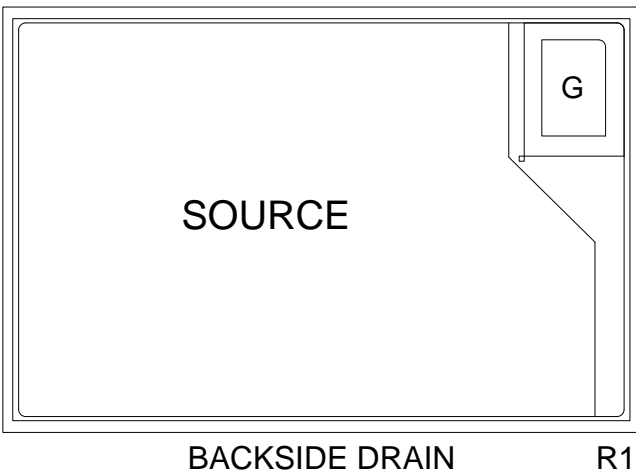
Effective Date of Change:

Existing inventory of chip process CP775 will be shipped until depleted.

Sample Availability:

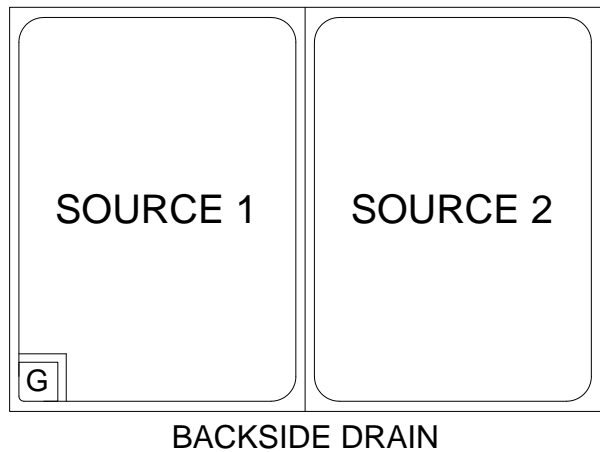
Please contact your salesperson or manufacturer's representative for samples.

Figure 1: CP775 Chip Geometry (Discontinued)



Wafer Diameter: 8 inch
Die Size: 90 x 60 mils
Die Thickness: 5.5 mils
Bond Pad Size (Gate): 14.1 x 18.8 mils
Bond Pad Size (Source): 88 x 52 mils
Topside Metal: Al (40,000Å)
Backside Metal: Ti/Ni/Ag (1,000Å/3,000Å/10,000Å)

Figure 2: CP802 Chip Geometry



Wafer Diameter: 8 inch
Die Size: 83.5 X 57.1 mils
Die Thickness: 5.5 mils
Bond Pad Size (Gate): 5.5 x 5.5 mils
Bond Pad Size (Source 1): 39.1 x 54.1 mils
Bond Pad Size (Source 2): 39.1 X 54.1 mils
Topside Metal: Al-Cu (40,000Å)
Backside Metal: Ti/Ni/Ag (1,000Å/3,000Å/10,000Å)

Part Numbers Affected:

CWDM3011P	CP775-CWDM3011P-CT
	CP775-CWDM3011P-CM
	CP775-CWDM3011P-WN



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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:	