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145 Adams Avenue, Hauppauge, NY 11788 USA Tel: (631) 435-1110 • Fax: (631) 435-1824 www.centralsemi.com mailto:processchange@centralsemi.com https://www.centralsemi.com/process-change-notices PCN #179 Notification Date: January 13, 2020

Product / Process Change Notice

Parts Affected:

Chip process CP307 and CP307V, NPN transistors, wafers, and bare die.

Extent of Change:

The CP307 and CP307V wafer processes have been discontinued and replaced with the CP327V wafer process. See Figures 1 and 2 for details.

Reason for Change:

The CP307 and CP307V wafer processes have been replaced by the CP327V wafer process in order to enhance the manufacturing process controls and performance. In addition, this change is being made to ensure an 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:

Test	Condition	Failure rate
Resistance to Solder Shock	T =260°C ±5°C Dwell time = 10 sec. JESD22-B106	0/77
High Temperature Storage Life/ bake test.	150°C (-0/+10)°C, 1000 hours. JESD22-A103	0/77
Temperature Cycling	T= -65°C to +150°C 1000 cycles. Dwell time = 15 min. JESD22-A104	0/77
High Temperature Reverse Bias (HTRB)	T=125°C, t=1000 hours Bias conditions per device datasheet JESD22-A108	0/77
Highly Accelerated Temperature and Humidity Stress Test (HAST)	T = 130°C, RH = 85%, P = 33.3 psia, and t = 96 hours. Bias conditions per device specification sheet. JESD22-A110	0/77
Accelerated Moisture Resistance Unbiased Autoclave	Temperature = 121°C ± 2°C; relative humidity = 100%; vapor pressure = 29.7 psia (15psig). t=96 hours JESD22-A102	0/77

Effective Date of Change:

January 13, 2020- Existing inventory will be shipped until depleted.

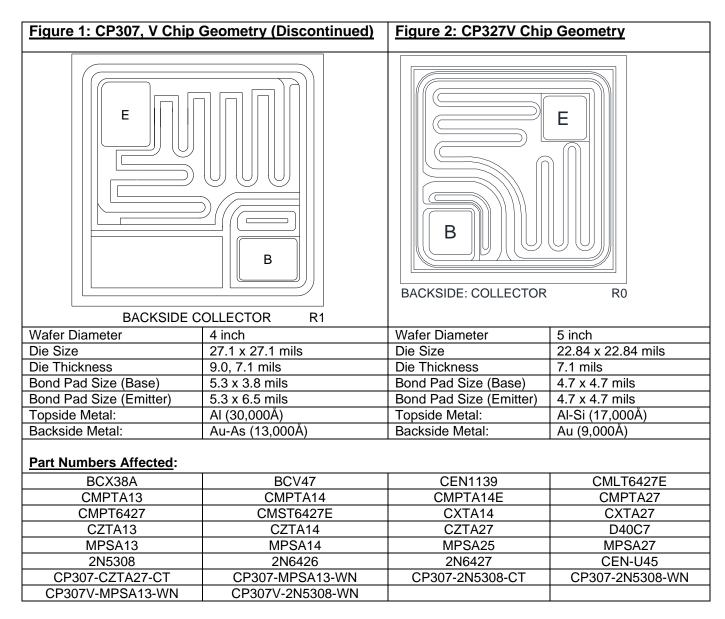


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Sample Availability:

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





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:	