



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

<mailto:processchange@centrasemi.com>
<http://www.centrasemi.com/processchange>

PCN # 247
Final Notification Date:
June 19, 2023

Product / Process Change Notice

Devices affected:

Small signal transistors manufactured in the SOT-323 case.

Extent of change:

Additional wafer fab site.

Reason for change:

As part of Central Semiconductor’s supply chain risk mitigation initiative, in an effort to ensure an undisrupted supply of product, an additional wafer fabrication site is being added for the referenced product family. Product specifications, quality and reliability are not impacted by this addition.

Effect of change:

This addition does not affect the fit, form or function of devices.

Qualification data:

Test	Condition	Failure rate
Resistance to Solder Shock	T =270°C ±5°C Dwell time = 7 s +2/-0 JESD22-B106	0/5
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 specification sheet. JESD22-A108	0/77
Thermal Shock	100 cycles, dwell time = 5 min, -65°C to +150°C, max transfer time = 20 sec. JESD22-A106	0/77
Unbiased Highly Accelerated Temperature and Humidity Stress Test (UHAST)	T = 130°C, RH = 85%, t = 96 hrs or T = 110°C, RH = 85%, t = 264 hrs JESD22-A110	0/77
Highly Accelerated Temperature and Humidity Stress Test (HAST)	T = 85°C, RH = 85%, t = 1000 hrs Bias conditions per device datasheet. JESD22-A101	0/77



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Earliest effective date of change:

September 19, 2023

Sample availability:

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

Part Number Affected:

BC846AW	BC856AW
BC846BW	BC856BW
BC847AW	BC857AW
BC847BW	BC857BW
BC847CW	BC857CW

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:	