Central™
Semiconductor Corp.
145 Adams Avenue, Hauppauge, NY 11788 USA
Tel: (631) 435-1110 • Fax: (631) 435-1824
www.centralsemi.com
mailto:processchange@centralsemi.com
http://www.centralsemi.com/processchange

PCN #147

Notification Date:
31 October 2013

Product / Process Change Notice

Parts Affected:
Chip process CP207, NPN silicon high speed saturated switching transistors, wafers, and bare die.

Extent of Change:
The CP207 wafer process has been discontinued and replaced with the CP396V wafer process.
The overall wafer diameter is being increased from 4 inch to 5 inch.
The overall wafer thickness is being reduced from 8.0 mils to 7.1 mils.
The die size and die pattern have been changed; see figures 1 and 2 for details.

Reason for Change:
An alternate wafer foundry was approved for this process.

Effect of Change:
This change does not affect the electrical characteristics of any device.

Qualification:
Standard evaluation and qualifications completed resulting in no performance differences compared to current product.

Effective Date of Change:
Existing inventory will be shipped until depleted.

Sample Availability:
Please contact Salesperson or Manufacturer's Representative.

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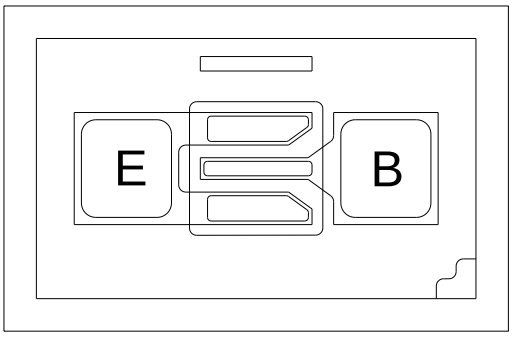
Figures:

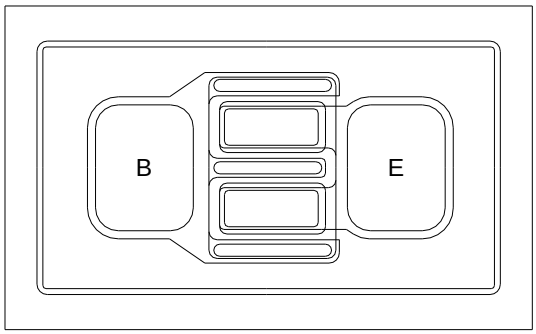
Figure 1: CP207 Chip Geometry (Discontinued)



BACKSIDE COLLECTOR

Wafer Diameter:	4 inch
Die Size:	9.0 x 14 mils
Die Thickness:	8.0 mils
Bond Pad Size (Emitter):	2.7 x 2.7 mils
Bond Pad Size (Base):	2.7 x 2.7 mils
Topside Metal:	Al (13,000Å)
Backside Metal:	Au (6,000Å)

Figure 2:CP396V Chip Geometry



BACKSIDE COLLECTOR

Wafer Diameter:	5 inch
Die Size:	14.2 x 8.7 mils
Die Thickness:	7.1 mils
Bond Pad Size (Emitter):	2.9 x 3.7 mils
Bond Pad Size (Base):	2.9 x 3.7 mils
Topside Metal:	Al (13,000Å)
Backside Metal:	Au-As (9,000Å)

Part Numbers Affected:

2N2205	2N784A
2N2242	2N834A
2N2369A	2N835
2N2369A	2N914
2N2475	2N947
2N3011	BSX20
2N3210	BSY18
2N3508	BSY62
2N706A	BSY95A
2N706C	CMPT2369
2N708	CP207-2N2369A-CT
2N709	CP207-2N2369A-WN
2N709A	MD2369B
2N744A	MPQ2369
2N753	PN2369A