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 #150

Notification Date: 24 June 2014

Product / Process Change Notice

Parts Affected:
Chip process CP517, PNP silicon, Darlington power transistors, wafers, and bare die.

Extent of Change:
The CP517 wafer process has been discontinued and replaced with the CP527 wafer process.
The overall wafer diameter is being reduced from 5 inch to 4 inch.
The die pattern has been changed; see figures 1 and 2 for details.

Reason for Change:
This process was transferred to an alternate wafer foundry due to low volume production.

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

Qualification:
Standard evaluation and qualifications completed resulting in no performance degradation.

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

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

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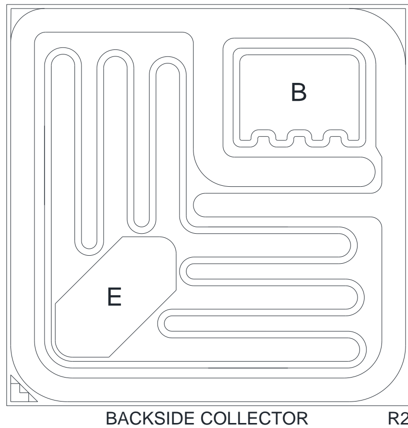
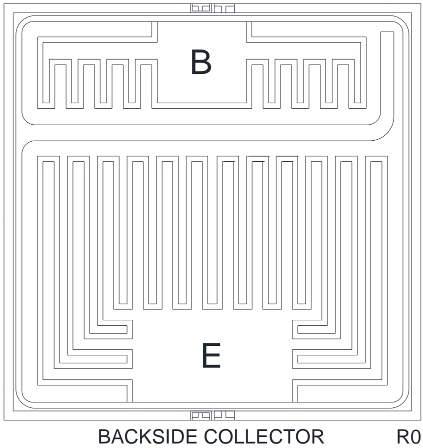
Figures:

Figure 1: CP517 Chip Geometry (Discontinued)



Wafer Diameter:	5 inch
Die Size:	111 x 111 mils
Die Thickness:	11 mils
Bond Pad Size (Emitter):	20 x 26 mils
Bond Pad Size (Base):	20 x 30 mils
Topside Metal:	Al (60,000Å)
Backside Metal:	Au/Cr/Ni/Au (6,100Å)

Figure 2:CP527 Chip Geometry



Wafer Diameter:	4 inch
Die Size:	110 x 110 mils
Die Thickness:	10.6 mils
Bond Pad Size (Emitter):	24 x 42 mils
Bond Pad Size (Base):	21 x 24 mils
Topside Metal:	Al (20,000Å)
Backside Metal:	Ag (10,000Å)

Part Numbers Affected:

2N6296	CP517-2N6042-CT
2N6297	CP517-2N6042-WS
2N6298	CP517-2N6053-CM
2N6298	CP517-2N6053-CT
CP517-BDX54C-CT	CP517-2N6296-CT
CP517-BDX54C-WS	CP517-2N6299-CT
CP517-PMD13K80-CT	CP517-2N6299-WS
CP517-TIP117-CT	CP517-2N6668-CT
CP517-TIP126-CT	CP517-2N6668-WS
CP517-TIP127-CT	CEN958
CP517-TIP127-WS	CEN1224