

## Product / Process Change Notice

**Parts Affected:**

Chip process CP707, PNP silicon small signal Darlington transistors, wafers, and bare die.

**Extent of Change:**

The CP707 wafer process has been discontinued and replaced with the CP727V wafer process.

The overall wafer diameter was increased from 4 inch to 5 inch.

The overall wafer thickness was reduced from 9 mils to 7.1 mils.

The backside metallization (Au) was reduced from 18,000Å to 9,000Å.

The die size was reduced from 27 x 27 mils to 22.8 x 22.8 mils.

The die pattern and bond pad area were changed; see figures 1 and 2 for details.

**Reason for Change:**

Process transfer from the 4" wafer fab to the 5" wafer fab.

**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:**

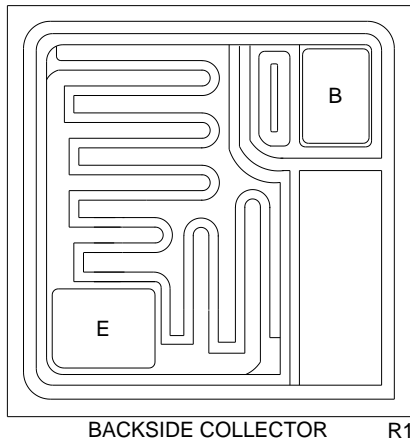
May 1, 2015. Existing inventory will be shipped until depleted.

**Sample Availability:**

Please contact Salesperson or Manufacturer's Representative.

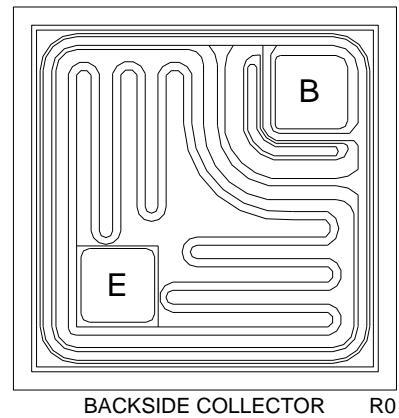
**Figures:**

**Figure 1: CP707 Chip Geometry (Discontinued)**



Wafer Diameter: 4 inch  
Die Size: 27 x 27 mils  
Die Thickness: 9.0 mils  
Bond Pad Size (Emitter): 5.3 x 6.5 mils  
Bond Pad Size (Base): 5.3 x 3.8 mils  
Topside Metal: Al (30,000Å)  
Backside Metal: Au (18,000Å)

**Figure 2: CP727V Chip Geometry**



Wafer Diameter: 5 inch  
Die Size: 22.8 x 22.8 mils  
Die Thickness: 7.1 mils  
Bond Pad Size (Emitter): 4.7 x 4.7 mils  
Bond Pad Size (Base): 4.7 x 4.7 mils  
Topside Metal: Al-Si (17,000Å)  
Backside Metal: Au (9,000Å)

**Part Numbers Affected:**

- |         |                   |
|---------|-------------------|
| MPSA62  | CMPTA77           |
| MPSA63  | CP707-MPSA64-WN   |
| MPSA64  | CP707-MPSU95-WN   |
| MPSA65  | CP707-CMPTA64-CTO |
| MPSA66  | CP707-MPSU95-CT   |
| MPSA75  |                   |
| MPSA76  |                   |
| MPSA77  |                   |
| CXTA62  |                   |
| CXTA64  |                   |
| CZTA64  |                   |
| CZTA77  |                   |
| CEN-U95 |                   |
| CMPTA63 |                   |
| CMPTA64 |                   |