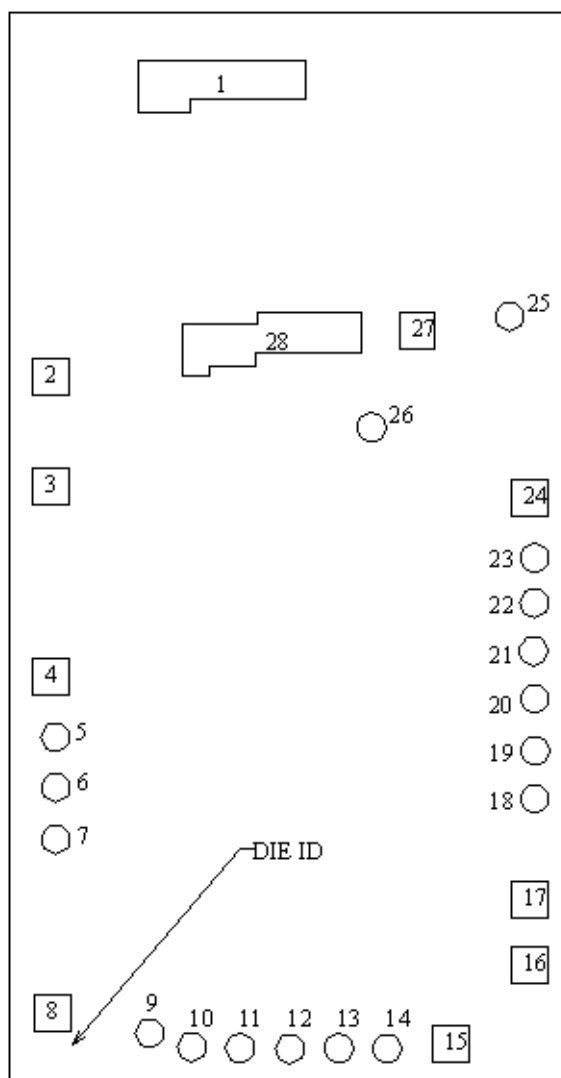


**LM2594HVADJ MDC MWC**  
**SIMPLE SWITCHER® POWER CONVERTER 150 KHZ 0.5A STEP-DOWN VOLTAGE**  
**REGULATOR**

June 17, 2002

**DIE LAYOUT (C-STEP)**



**DIE/WAFER CHARACTERISTICS**

| Fabrication Attributes      |                                     | General Die Information     |                |
|-----------------------------|-------------------------------------|-----------------------------|----------------|
| Physical Die Identification | LM1594C                             | Bond Pad Opening Size (min) | 112µm x 112µm  |
| Die Step                    | C                                   | Bond Pad Metalization       | ALUMINUM       |
| Physical Attributes         |                                     | Passivation                 | VOM NITRIDE    |
| Wafer Diameter              | 150mm                               | Back Side Metal             | BARE BACK      |
| Die Size (Drawn)            | 1727µm x 3302µm<br>68mils x 130mils | Back Side Connection        | Float Backside |
| Thickness                   | 406µm Nominal                       |                             |                |
| Min Pitch                   | 130µm Nominal                       |                             |                |

**Special Assembly Requirements:**

**Note: Actual die size is rounded to the nearest micron.**

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| Die Bond Pad Coordinate Locations (C -Step)   |                |                 |       |          |   |     |
|---|----------------|-----------------|-------|----------|---|-----|
| (Referenced to die center, coordinates in $\mu\text{m}$ ) <b>NC</b> = No Connection |                |                 |       |          |   |     |
| SIGNAL<br>NAME  | PAD#<br>NUMBER | X/Y CORRDINATES |       | PAD SIZE |   |     |
|   |                | X               | Y     | X        | Y |     |
| OUTPUT  | 1              | -212            | 1422  | 512      | x | 159 |
| NC  | 2              | -737            | 531   | 112      | x | 112 |
| NC  | 3              | -737            | 195   | 112      | x | 112 |
| NC  | 4              | -737            | -394  | 112      | x | 112 |
| NC  | 5              | -725            | -577  | 88       | x | 88  |
| NC  | 6              | -723            | -733  | 88       | x | 88  |
| NC  | 7              | -723            | -895  | 88       | x | 88  |
| FB  | 8              | -733            | -1427 | 112      | x | 112 |
| NC  | 9              | -436            | -1491 | 88       | x | 88  |
| NC  | 10             | -306            | -1537 | 87       | x | 87  |
| NC  | 11             | -155            | -1537 | 87       | x | 87  |
| NC  | 12             | -4              | -1537 | 87       | x | 87  |
| NC  | 13             | 147             | -1537 | 87       | x | 87  |
| NC  | 14             | 298             | -1537 | 87       | x | 87  |
| NC  | 15             | 492             | -1525 | 112      | x | 112 |
| /ON_OFF   | 16             | 737             | -1283 | 112      | x | 112 |
| GND   | 17             | 737             | -1081 | 112      | x | 112 |
| NC  | 18             | 750             | -771  | 87       | x | 87  |
| NC  | 19             | 750             | -620  | 87       | x | 87  |
| NC  | 20             | 750             | -469  | 87       | x | 87  |
| NC  | 21             | 750             | -318  | 87       | x | 87  |
| NC  | 22             | 750             | -167  | 87       | x | 87  |
| NC  | 23             | 750             | -26   | 88       | x | 88  |
| GND   | 24             | 737             | 157   | 112      | x | 112 |
| NC  | 25             | 672             | 713   | 88       | x | 88  |
| NC  | 26             | 247             | 373   | 88       | x | 88  |
| VIN   | 27             | 390             | 675   | 112      | x | 112 |
| VIN   | 28             | -58             | 631   | 552      | x | 199 |

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|                               |  |
|-------------------------------|--|
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