



JEDEC  
SOLID STATE  
PRODUCT OUTLINE

THIS **REGISTERED OUTLINE** HAS BEEN PREPARED BY THE JEDEC JC-11 COMMITTEE AND REFLECTS A PRODUCT WITH ANTICIPATED USAGE IN THE ELECTRONICS INDUSTRY, CHANGES ARE LIKELY TO OCCUR.

TITLE

PLASTIC SMALL OUTLINE  
HEATSLUG PACKAGE

PACKAGE DESIGNATOR

H-PDSO-G

ISSUE

D

DATE

11/99

MO-166

SHEET

1 OF 4



| SYMBOL | COMMON DIMENSIONS |      |       | NOTE |
|--------|-------------------|------|-------|------|
|        | MIN               | NOM  | MAX   |      |
| A      | —                 | —    | 3.60  |      |
| A1     | 0.10              | —    | —     |      |
| A2     | 3.00              | 3.15 | 3.30  |      |
| A3     | 0                 | —    | 0.10  |      |
| A4     | 0.80              | 0.90 | 1.00  |      |
| D      | 15.90 BSC         |      |       | 2,12 |
| D1     | 9.00              | —    | 13.00 |      |
| D2     | —                 | —    | 1.10  |      |
| E      | 14.20 BSC         |      |       |      |
| E1     | 11.00 BSC         |      |       | 2    |
| E2     | —                 | —    | 2.90  |      |
| E3     | 5.60              | —    | 6.20  |      |
| h      | —                 | —    | 1.10  |      |
| L1     | 1.60 REF          |      |       |      |
| R      | 0.20              | —    | —     |      |
| R1     | 0.20              | —    | —     |      |
| θ      | 0°                | —    | 8°    |      |
| θ1     | 5°                | —    | 15°   |      |
| NOTES  | 1, 8              |      |       |      |
| REF    | 11-443            |      |       |      |
| ISSUE  | A                 |      |       |      |

VARIATIONS (ALL DIMENSIONS IS MILLIMETERS)

| SYMBOLS | AA        |      |      | AB        |      |      | AC        |      |      | AD        |      |      | AE        |      |      | AF        |      |      | NOTES |
|---------|-----------|------|------|-----------|------|------|-----------|------|------|-----------|------|------|-----------|------|------|-----------|------|------|-------|
|         | MIN       | NOM  | MAX  | MIN       | NOM  | MAX  | MIN       | NOM  | MAX  | MIN       | NOM  | MAX  | MIN       | NOM  | MAX  | MIN       | NOM  | MAX  |       |
| b       | 0.40      | —    | 0.53 | 0.40      | —    | 0.53 | 0.40      | —    | 0.53 | 0.35      | —    | 0.48 | 0.25      | —    | 0.38 | 0.25      | —    | 0.38 | 6     |
| b1      | 0.40      | 0.45 | 0.50 | 0.40      | 0.45 | 0.50 | 0.40      | 0.45 | 0.50 | 0.35      | 0.40 | 0.45 | 0.25      | 0.30 | 0.35 | 0.25      | 0.30 | 0.35 | 6     |
| c       | 0.23      | —    | 0.32 | 0.36      | —    | 0.50 | 0.23      | —    | 0.32 | 0.23      | —    | 0.32 | 0.23      | —    | 0.32 | 0.23      | —    | 0.32 | 6     |
| c1      | 0.23      | 0.25 | 0.29 | 0.36      | 0.40 | 0.44 | 0.23      | 0.25 | 0.29 | 0.23      | 0.25 | 0.29 | 0.23      | 0.25 | 0.29 | 0.23      | 0.25 | 0.29 | 6     |
| aaa     | 0.25      |      |      | 0.25      |      |      | 0.20      |      |      | 0.20      |      |      | 0.12      |      |      | 0.12      |      |      |       |
| Ⓢ       | 1.27 BSC. |      |      | 1.27 BSC. |      |      | 1.00 BSC. |      |      | 0.80 BSC. |      |      | 0.65 BSC. |      |      | 0.65 BSC. |      |      |       |
| N       | 20        |      |      | 20        |      |      | 24        |      |      | 30        |      |      | 36        |      |      | 44        |      |      | 5     |
| Ⓛ2      | 0.35 BSC. |      |      | 0.45 BSC. |      |      | 0.35 BSC. |      |      | 0.35 BSC. |      |      | 0.35 BSC. |      |      | 0.35 BSC. |      |      |       |
| L       | 0.80      | —    | 1.10 | 0.95      | —    | 1.25 | 0.80      | —    | 1.10 | 0.80      | —    | 1.10 | 0.80      | —    | 1.10 | 0.80      | —    | 1.10 |       |
| NOTES   | 1,8       |      |      | 1,8       |      |      | 1,8       |      |      | 1,8       |      |      | 1,8       |      |      | 1,8       |      |      |       |
| REF.    | 11-443    |      |      | 11-443    |      |      | 11-443    |      |      | 11-443    |      |      | 11-443    |      |      | 11-551    |      |      |       |
| ISSUE   | A         |      |      | A         |      |      | A         |      |      | A         |      |      | A         |      |      | D         |      |      |       |

JEDEC  
SOLID STATE PRODUCTS  
OUTLINES

TITLE PLASTIC  
SMALL OUTLINE HEAT SLUG PKG  
H-PDSO — G

ISSUE  
D

DATE  
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MO-166

SHEET  
3 OF 4

## NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994.

2. DIMENSION D DOES NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS. MOLD FLASH, PROTRUSIONS OR GATE BURRS SHALL NOT EXCEED 0.15 PER SIDE. D IS DETERMINED AT DATUM H.

3. DIMENSION E1 DOES NOT INCLUDE INTERLEAD FLASH OR PROTRUSION. INTERLEAD FLASH OR PROTRUSION SHALL NOT EXCEED 0.15 PER SIDE. E1 IS DETERMINED AT DATUM H.

4. A VISUAL INDEX FEATURE MUST BE LOCATED WITHIN THE CROSS-HATCHED AREA.

5. "N" IS THE MAXIMUM NUMBER OF TERMINAL POSITIONS.

6. THESE DIMENSIONS APPLY TO THE FLAT SECTION OF THE LEAD BETWEEN 0.10 AND 0.25 mm FROM THE LEAD TIP.

7. THIS DIMENSION IS 0.00 FOR VARIATIONS WHICH HAVE AN ODD NUMBER OF LEADS PER SIDE.

8. ALL DIMENSIONS IN MILLIMETERS.

9. EXACT SHAPE AND SIZE OF THIS FEATURE IS OPTIONAL.

10. SEATING PLANE IS DEFINED BY LEAD TIPS ONLY.

11. DIMENSIONS E2 AND D2 ARE MEASURED AT PLANE G

12. HEATSLUG LENGTH IS FLUSH WITH PARTING LINE AT DATUM H AND COINCIDENT WITH DIMENSION "D"