

Title (en)
HEAT SINK FOR INTEGRATED CIRCUIT PACKAGES

Title (de)
WÄRMESENKE FÜR INTEGRIERTE SCHALTUNGSPACKUNGEN

Title (fr)
RADIATEUR POUR BOITIERS DE CIRCUITS INTEGRES

Publication
EP 0758488 A1 19970219 (EN)

Application
EP 96910413 A 19960306

Priority
• US 9603282 W 19960306
• US 39917395 A 19950306

Abstract (en)
[origin: WO9627903A1] A heat sink (52) for use in a molded integrated circuit package (38) includes a main body (54) formed of a thermally conductive material. The main body (54) has (i) an upwardly facing horizontally extending top surface (56) adapted to support either directly or indirectly an integrated circuit die (40), (ii) a downwardly facing horizontally extending bottom surface (58), (iii) an outer circumferential edge (60), and (iv) a slot (62) or recess (84) formed into the main body (54) of said heat sink (52). The slot (62) or recess (84) is adapted to receive some of an encapsulating material (50) during the molding of the integrated circuit package (38) so as to form a mechanical connection between the heat sink (52) and the package (38). And, the bottom surface (58) of the heat sink (52) is exposed on an external surface of the integrated circuit package (38) after the molding of the integrated circuit package (38) is complete.

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H01L 23/433

IPC 8 full level
H01L 23/433 (2006.01)

CPC (source: EP KR)
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Citation (search report)
See references of WO 9627903A1

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