Title (en)

TWO-CHIP POWER INTEGRATED CIRCUIT WITH IMPROVED SHORT CIRCUIT CHARACTERISTICS

Title (de)

ZWEI-CHIP-LEISTUNGS-IC MIT VERBESSERTEM KURZSCHLUSSVERHALTEN

Title (fr)

CARTE A CIRCUIT INTEGRE DE PUISSANCE A DEUX PUCES A COMPORTEMENT AU COURT-CIRCUIT AMELIORE

Publication

EP 0996980 A1 20000503 (DE)

Application

EP 98936183 A 19980617

Priority

- DE 9801638 W 19980617
- DE 19728281 A 19970702

Abstract (en)

[origin: DE19728281C1] Two-chip power integrated circuit (IC) in which a sensor chip (2) provided with a sensor is mounted on a switch-chip (1) provided with a switch and the sensor is electrically connected to the switch in order to switch off the switch by means of the sensor if the temperature detected by the sensor exceeds a pre-set threshold. At least one feed-line (5) of the switch is brought near to the sensor. The feed-line (5) is the source line of a MOSFET of the switch-chip (1) switch and at least partially borders the surface of the sensor chip (2).

IPC 1-7

H01L 23/34; H01L 27/02

IPC 8 full level

H01L 23/34 (2006.01)

CPC (source: EP US)

H01L 23/34 (2013.01 - EP US); **H01L 24/48** (2013.01 - EP US); H01L 2224/05624 (2013.01 - EP US); H01L 2224/32145 (2013.01 - EP US); H01L 2224/4809 (2013.01 - EP US); H01L 2224/48147 (2013.01 - EP US); H01L 2224/48247 (2013.01 - EP US); H01L 2224/48472 (2013.01 - EP US); H01L 2224/73265 (2013.01 - EP US); H01L 2924/00014 (2013.01 - EP US); H01L 2924/01013 (2013.01 - EP US); H01L 2924/01014 (2013.01 - EP US); H01L 2924/01058 (2013.01 - EP US); H01L 2924/01068 (2013.01 - EP US); H01L 2924/01079 (2013.01 - EP US); H01L 2924/014 (2013.01 - EP US); H01L 2924/1306 (2013.01 - EP US); H01L 2924/13091 (2013.01 - EP US); H01L 2924/14 (2013.01 - EP US)

Citation (search report)

See references of WO 9901896A1

Designated contracting state (EPC)

DE FR GB IE IT

DOCDB simple family (publication)

DE 19728281 C1 19981029; EP 0996980 A1 20000503; US 6323531 B1 20011127; WO 9901896 A1 19990114

DOCDB simple family (application)

DE 19728281 A 19970702; DE 9801638 W 19980617; EP 98936183 A 19980617; US 47713200 A 20000103