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moisture sensitivity of plastic pdf

Moisture Sensitivity of Plastic Packages of IC Devices provides information on the state-of-the-art techniques and methodologies related to moisture issues in plastic packages. The most updated, in-depth and systematic technical and theoretical approaches are addressed in the book.

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Moisture Sensitivity/Desiccant Packaging/Handling of PSMCs 8-2 2000 Packaging Databook The effect of moisture in PSMC packages and the critical moisture content which may result in package damage or failure is a complex function of package design and material property variables.

Moisture Sensitivity/Desiccant Packaging/Handling of PSMCs

In order to study the difference between water sorption and moisture sorption, an experiment of moisture sensitivity/reflow test for two groups of quad flat no-lead (QFN) plastic packages was conducted [17].

Moisture Sensitivity of Plastic Packages of IC Devices

Moisture sensitivity of plastic surface mount devices is a major quality and reliability concern for both semiconductor manufacturers and OEMs. Moisture inside a plastic package turns to steam and expands rapidly when the package is exposed to the high temperature of VPR (vapor phase reflow) or IR (infrared) soldering.

MOISTURE CONTROL MEASURES - Pulse Electronics

CROSS SECTIONAL VIEW OF A MOISTURE SENSITIVE PLASTIC PACKAGE UNDERGOING SOLDER REFLOW. ABSORBED MOISTURE TURNS TO VAPOR, WHICH CAUSES THE PACKAGE TO SWELL.
TB363Rev.5.00 Page 2 of 4 May 16, 2018 Guidelines for Handling and Processing Moisture Sensitive Surface Mount Devices (SMDs)

TB363: Guidelines for Handling and Processing Moisture

Moisture/Reflow Sensitivity Classification for Nonhermetic Surface Mount Devices A joint standard developed by the IPC Plastic Chip Carrier Cracking Task Group (B-10a) and the JEDEC JC-14.1 Committee on Reliability Test Methods for Packaged Devices Users of this standard are encouraged to participate in the development of future revisions ...

Moisture/Reflow Sensitivity Classification for Nonhermetic

Key words: Moisture-sensitive devices, moisture barrier bags, dry box. WHY DO COMPONENTS REQUIRE LOW HUMIDITY STORAGE? The plastic packaging used to manufacture surface mount devices (SMD) will absorb moisture from the atmosphere. The high temperatures involved in vapor phase/reflow soldering cause the absorbed moisture to expand rapidly,

MOISTURE SENSITIVE COMPONENT STORAGE Hiro Suganuma/Alvin

of reflow profile, for which the moisture sensitivity rating of plastic packages are classified and referenced. The moisture/reflow sensitivity test consists of two stages. Stage I is moisture soak, in which a specific combination between temperature, humidity and time is defined to mimic humidity exposure of plastic packages in field use ...

Accelerated Moisture Sensitivity Test Methodology for

pack, PLCC-plastic leaded chip carrier, etc.), number of pins, mold compound, and die pad area to be evaluated, select a sample of 10 units for each moisture sensitivity level to be tested.

JESD22-A112-A Page 1 - navsea.navy.mil

Moisture/reflow sensitivity test has been documented in the joint JEDEC/IPC industry standard J-STD-020D [9]. This test specification has established exposure conditions of temperature, humidity, and time for which the moisture sensitivity ranking of surface mount devices are classified and referenced.

Moisture Sensitivity of Plastic Packages of IC Devices

Moisture Sensitivity 3 Conclusion Moisture trapped inside plastic packages can damage them during soldering. Microsemi tests all plastic packaged FPGAs for moisture sensitivity according to the procedures outlined by JEDEC. Most of Microsemi's plastic packages are rated at a moisture sensitivity level (MSL) of 3. Microsemi's eX FPGAs,

Moisture Sensitivity - Microsemi

Moisture sensitivity levels explained with J-STD-20 tables. ... The result can be internal separation and delamination of the plastic from the frame, wire bond damage, die damage, internal cracks, and smaller devices can literally pop open... the "popcorn" effect. ... The bag should have a moisture sensitive label on the exterior, ideally ...

Moisture Sensitivity Levels Explained

The course covers plastic-encapsulated microcircuits. Molding compound (MC) in PEMs comes in direct ... IPC/JEDEC J-STD-020D.01 Moisture/Reflow Sensitivity Classification for Nonhermetic Solid State Surface Mount ... 8/2-4/2011 Plastic Package Reliability 23 Pass Pass Fail (unvalidated failure) Fail Pass

Plastic Package Reliability - Computer Action Team

Moisture sensitive devices are packaged in a moisture barrier antistatic bag with a desiccant and a moisture indicator card which is sealed. IPC-M-109 includes seven documents. According to [1] : Moisture/reflow sensitivity classification for plastic Integrated circuit (IC) SMDs, there are eight levels of moisture sensitivity.

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