

Journal of Smart Processing

Vol. 7 No. 4 2018 (July 2018)

CONTENTS

Mate2018 特集号 - 第24回「エレクトロニクスにおけるマイクロ接合・実装技術」シンポジウム -

Memorial

S.P.S.Announcement N10

Preface Hiroshi NISHIKAWA 121

Research Papers

Evaluation of Thermal Resistance for Underfill Layer in

Three-dimensional Stacked ICs by Transient Thermal Analysis

Makoto SASAKI, Ryo KIKUCHI, Taiji SAKAI and Seiki SAKUYAMA 122

Evaluation of Deterioration Life of Interface of Copper and Epoxy Resin
under High Temperature and High Humidity Conditions

Yu TONOZUKA, Tatsuya KOBAYASHI, Ikuo SHOJII,
Hiroaki HOKAZONO, Kuniaki TAKAHASHI and Toku EZURE 128

Metallization Method using Silicone Oligomer on Hard-to-plate

Materials and Characterization of Oligomer Film

Daisuke SADOHARA, Moriji MATSUMOTO and Shozo SEINO 135

Interface Reaction and Contact Stability of High-Current Press-fit Connection

Minoru EGUSA, Hidetoshi ISHIBASHI, Yoshitaka OTSUBO

Masao KIKUCHI and Yoshihiro KASHIBA 139

Evaluation of the Delimitation of Molding Resin in a Power Module under Thermal Cycle Test

Shunsuke KAWASHITA, Yuto NANAZOSHI, Toru IKEDA

Masaaki KOGANEMARU, Hiroaki HOKAZONO and Tatsuhiro ASAI 146

Effects of Ag Addition on Solidification Process and Microstructure of InSn Alloy

Taiki UEMURA, Kenji NOMURA, Taiji SAKAI and Seiki SAKUYAMA 154

Material and Process for Insulation Reliable Circuitry below 2/2 μm Line/Space

Kazuyuki MITSUKURA, Shinichiro ABE, Masaya TOBA

Kenichi IWASHITA, Tomonori MINEGISHI

Kazuhiko KURAFUCHI and Kozo FUJIMOTO 160

Special Report for Mate 2018

Report on 24th Symposium on “Microjoining and Assembly Technology in Electronics”

Michiya MATSUSHIMA 166

S.P.S.News N16