











PAE2 thermoplastic for lower moisture absorption. But poor contact resistance stability due to poor adhesion. Add
"coupling agent" (e.g. CA4) to improve. But note correlation with surface roughness. [Liong/Wong (ECTC 2002)] (<sup>(C)</sup>)











by conventional ACA after current stressing reliability test.

Fig. 7 Chip surface temperature of flip chip assemblies: conventional and thermally conductive ACAs as a functi-current stressing time.









## Adhesive Layer Thermal Transient: ICA Flip-chip, 1sec (☆)

Transient thermal temperature response after 1 second in a flip-chip mounted with isotropically electrically conductive adhesive joints seen through the pad row





Transient thermal temperature response after 1 second in a flip-chip mounted with isotropically electrically conductive adhesive joints seen in the adhesive joint layer