



11/01/96

PCN-964501\*\*

## ×32 Synchronous Burst SRAM Product Change Notification

**Products affected: AS7C33232F, AS7C36432**

**Change Description: Single mask change to improve noise immunity during  $V_{DD}$  power-up**

**Details:** This letter is to serve as a notification of a product change for Alliance Semiconductor part numbers AS7C33232F and AS7C36432. The Alliance AS7C36432 and AS7C33232F burst SRAM devices began sampling in August 1996. Feedback from certain customers indicated a susceptibility to high frequency noise on control inputs before  $V_{DD}$  was stable. Subjecting either device to this condition resulted in intermittent 'lockup' problems. The failure mechanism was failure of power on the self test portion of the motherboard boot-up sequence.

A single metal mask change was made to both devices to eliminate this characteristic. This change was tested in a variety of motherboards across temperature to insure successful elimination of the problem. Furthermore, specific failing units were shown to later pass 100% after an equivalent ion beam repair.

**Schedule:** Production quantities of the improved AS7C36432 are shipping today. Production quantities of the AS7C33232F should be shipping by mid-December.

**Disposition:** Since this sensitivity was recognized early, old rev material was isolated primarily to engineering sample units. Other than through normal lot number traceability, there will be no mark change to indicate rev level. There are no changes to DC or AC performance. Alliance does not view this as a major (form, fit, or function) change which might require requalification.

Questions regarding this Product Change Notification should be forwarded to a local Alliance sales representative.

Regards,

Michael G. Davis  
SRAM Senior Product Marketing Manager  
davis@alsc.com

***ALLIANCE SEMICONDUCTOR***  
3099 NORTH FIRST STREET SAN JOSE, CA 95134