MAX 7000
PRODUCT CHANGE NOTIFICATION

Overview

This PCN is to notify you of an additional source of supply for the MAX 7000 family of devices to accommodate the strong customer demand for this product line. An additional Fabrication facility, Sharp Fab 1 in Fukuyama, is being brought on line to supply the EPM7032 and EPM7064 using an existing Sharp process for the MAX 7000.

Implementation

Altera will begin die substitution for the EPM7032 on February 1, 1996. After this date, Altera may use die from either process line.

In all cases of die substitution, the additional MAX 7000 process may be distinguished by the fourth and fifth characters of the ten character lot number, which is marked on the backside of the device. The Sharp Fab 1 process in Fukuyama can be identified by a 16. MAX 7000 devices currently fabricated in Sharp Fab 2, may be identified by a 6 or a 9 in the fourth digit of the Altera lot number.

Reliability Information

Reliability results for the additional MAX 7000 Sharp Fab 1 process are provided below:

EPM7032 Reliability Results

Package	Reliability Test	Sample Size	Test Duration	# Fail
44 PLCC	Lifetest 130∞C, 6.0V	90	500 hrs	0
44 PLCC	Lifetest 130∞C, 6.0V	144	168 hrs	0
44 PLCC	Autoclave 121∞C	45	168 hrs	0
44 PLCC	Temperature Cycle Cond. C	45	1000 cy	0
44 PLCC	THB 85∞C / 85% RH	45	500 hrs	0
44 PLCC	245∞C Retention Bake	45	168 hrs	0