

# MC33897T, TSMC Silicon Errata

## Introduction

Freescale is expanding silicon wafer capacity at Taiwan Semiconductor Manufacturing Company, LTD. (TSMC) located in Science Park, Taiwan. Freescale is working with TSMC to ensure a smooth transition and is pursuing full automotive qualification of all transferred products.

This errata sheet applies to the following device:

- MC33897TD
- MC33897TEF
- SC900800TD

## Device Revision Identification

The device revision is indicated by a 1-character code after the device code. For instance the “**T**” in the “MC33897**T**” indicates TSMC silicon. All standard devices are marked with a device identification and build information code.

## Device Build Information / Date Code

Device markings indicate build information containing the week and year of manufacture. The date is coded with the last four characters of the nine character build information code (e.g. “CTKAH**0429**”). The date is coded as four numerical digits where the first two digits indicate the year and the last two digits indicate the week. For instance, the date code “**0429**” indicates the 29th week of the year 2004.

## Device Part Number Prefixes

Some device samples are marked with a **PC** prefix. A **PC** prefix indicates a prototype device which has undergone basic testing only. After full characterization and qualification, devices will be marked with the **MC** or **SC** prefix.

## Analog, M87G Mask Errata - Parameter Adjustments

We have noted the following parameter adjustments on the Single Wire CAN, TSMC fabricated silicon. Please consider the MC33897 Data Sheet in combination with this errata for the TSMC products. Formal parameter adjustments will be updated in the Data Sheet upon final qualification results.

**Table 1. Static Electrical Characteristics**

Characteristics noted under the following conditions:  $-40^{\circ}\text{C} \leq T_A \leq 125^{\circ}\text{C}$ . Voltages are relative to GND unless otherwise noted. All positive currents are into the terminal. All negative currents are out of the terminal.

Characteristic	Symbol	Min	Typ	Max	Unit
<b>BUS</b>					
Input Threshold Awake $5.0\text{ V} \leq V_{\text{BATT}} \leq 26.5\text{ V}$	$V_{\text{BIA}}$	2.0	.	2.3	V
Normal Mode Output High Voltage $6.0\text{ V} \leq V_{\text{BATT}} \leq 26.5\text{ V}, R_L \geq 200\ \Omega$ $6.0\text{ V} \leq V_{\text{BATT}} \leq 26.5\text{ V}, R_L \leq 3332\ \Omega$	$V_{\text{NOHF}}$	4.4	-	5.4	V
		4.4	-	5.7	
<b>GENERAL</b>					
Quiescent Current Sleep $5.0\text{ V} \leq V_{\text{BATT}} \leq 13\text{ V}$ <sup>(1)</sup>	$I_{\text{QSLP}}$	-	45	75	$\mu\text{A}$

Notes

- 1 After  $t_{\text{CNTLFDLY}}$

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