Preliminary

Notice: This is not a final specification. Some parametric limits are subject to change.

M6MGB/T331S8BKT

33,554,432-BIT (2,097,152 - WORD BY 16-BIT /4,194,304-WORD BY 8-BIT) CMOS FLASH MEMORY &

8,388,608-BIT (524,288-WORD BY 16-BIT /1,048,576-WORD BY 8-BIT) CMOS SRAM Stacked - μ MCP (micro Multi Chip Package)

Description

The M6MGB/T331S8BKT is a Stacked micro Multi Chip Package (S- μ MCP) that contents 32M-bit Flash memory and 8M-bit Static RAM in a 52-pin TSOP for lead free use.

32M-bit Flash memory is a 4,194,304 bytes / 2,097,152 words, , single power supply and high performance non-volatile memory fabricated by CMOS technology for the peripheral circuit and DINOR (Divided bit-line NOR IV) architecture for the memory cell. All memory blocks are locked and can not be programmed or erased, when F-WP# is low. Using Software Lock Release function, program or erase operation can be executed.

 $8\mbox{M-bit}$ SRAM is a 1,048,576 bytes / 524,288 words asynchronous SRAM fabricated by CMOS technology for the peripheral circuit .

The M6MGB/T331S8BKT is suitable for a high performance cellular phone and a mobile PC that are required to be small mounting area, weight and small power dissipation

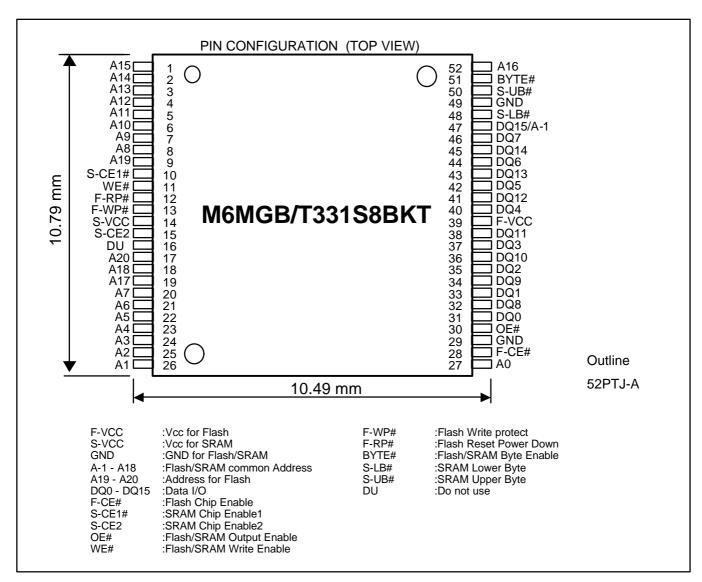
Features

Access Time Flash 70ns (Max.) SRAM 85ns (Max.) Supply Voltage VCC= $2.7 \sim 3.0$ V Ambient Temperature Ta= $-40 \sim 85$ °C Package 52pin TSOP(Type-II), Lead pitch 0.4mm

Outer-lead finishing:Sn-Cu

Application

Mobile communication products





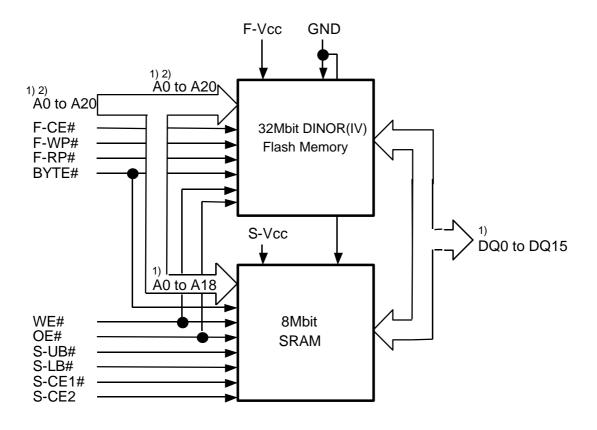
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M6MGB/T331S8BKT

33,554,432-BIT (2,097,152 - WORD BY 16-BIT /4,194,304-WORD BY 8-BIT) CMOS FLASH MEMORY &

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MCP Block Diagram



- Note 1): In case of x8 organization, A-1 is added, and only Lower Byte data(DQ0 to DQ7) are assigned to I/O and Upper Byte data(DQ8 to DQ15) are High-Z.
- Note 2): In the data sheet there are "VCC"s which mean "F-VCC" or "S-VCC". In the SRAM part there are "UB#" and "LB#" which mean "S-UB#" and "S-LB#", respectively.
- Note 3): "DU(Don't Use)" pin must be OPEN ,otherwise be inputted within 0V ~ Vcc.

Capacitance

Symbol	Parameter		Conditions	Limits			Unit
Суппост				Min.	Тур.	Max.	Offic
CIN	-	A20-A0, OE#, WE#, F-CE#, F-WP#, F-RP#, S-CE1#, S-CE2, BYTE#, S-LB#, S-UB#	Ta=25 °C, f=1MHz, Vin=Vout=0V			18	pF
COUT	Output Capacitance	DQ15-DQ0				22	pF

M6MGB/T331S8BKT

33,554,432-BIT (2,097,152 - WORD BY 16-BIT/4,194,304-WORD BY 8-BIT) CMOS 3.0V-ONLY FLASH MEMORY &

8,388,608-BIT (524,288-WORD BY 16-BIT/1,048,576-WORD BY 8-BIT) CMOS SRAM Stacked - µ MCP (micro Multi Chip Package)

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