OKI semiconductor MSM2965RS

65,536 BITS STATIC 64K MASK ROM

GENERAL DESCRIPTION

The MSM2965RS is a 65336-bits static, N channel MOS Read only memory organized as 8,192 words by 8 bits. The three-state outputs and TTL inputs/outputs level allow for direct interface with common system bus structures. The MSM2965RS single +5 V power supply and 300 ns access time are both ideal for usage with high performance microcomputers.

CS₁ may be defined by customer and fixed during the masking process.

ROM DATA Accepting flow from customer.

Preparing next two in customer's side

1) Two master devices, programming finished 64K EP. ROM or two 32K EP. ROMs.

2) Chip select CS logic table.

After received customer's ROM DATA, print out ROM DATA in Hex CODE and copy finished 64K EP. ROM or two 32K EP. ROMs send to customer.

Verified ROM DATA in customer's side, OKI send engineering samples mask programed customer's ROM DATA.

FEATURES

Organization	8192 W x 8 bit

- Static Operation
 No clocks required
- Supply Voltage 5 V ± 10%
- Access Time
- Power Dissipation
- Input Voltage VIH = 2.0 V Min.,
 - VIL = 0.8 V Max.

300 ns Max.

687 mW Max.

Output Voltage

Package

- $V_{OH} = 2.4 V Min.,$ $V_{OL} = 0.4 V Max.$ 24 PIN DIP
- FUNCTIONAL BLOCK DIAGRAM D₀ D₁ -D1 Output buffer Vcc O-Memory Matrix PIN CONFIGURATION Vss O-CS1 65536 bit (8192 x 8) Chin 24 DVCC select A70 1 AGC 2 23 A8 Address decoder As C 3 22 A. 21 A12 A404 A305 20 CS A206 19 A10 Address buffer 18 A. A, C7 170D7 Ao C8 16 D. D₀D9 Α, A, Α,, D, C10 15 Ds 14 D4 D2011 VSS[12 13 D3 Note: CS is programmable CHIP SELECTS.

ABSOLUTE MAXIMUM RATINGS

Rating	Symbol	Value	Unit	
Supply Voltage	Vcc -0.5 to +7.0		v	
Input Voltage	VI	-0.5 to +7.0	v	
Output Voltage	Vo	-0.5 to +7.0	v	
Operating Temperature	Topr	0 to +70	°C	
Storage Temperature	Tstg	-55 to +150		

RECOMMENDED OPERATING CONDITIONS

Parameter	Symbol	Min.	Тур.	Max.	Unit
Supply Voltage	Vcc	4.5	5.0	5.5	V
"H" Input Voltage	VIH	2.0		Vcc	V
"L" Input Voltage	VIL	-0.5		0.8	V

AC OPERATING CHARACTERISTICS

 $(Vcc = 5 V \pm 10\%, Vss = 0 V, Ta = 0^{\circ}C to +70^{\circ}C)$

Parameter	Symbol	Min.	Max.	Unit
Read Cycle time	tCYC	300		ns
Address Access time	^t ACC		300	ns
Chip Select Access.time	tCS		100	ns
Output Disable Delay time	^t DF		100	ns

DC CHARACTERISTICS

 $(V_{cc} = 5 V \pm 10\%, V_{ss} = 0 V, T_a = 0^{\circ} C \text{ to } +70^{\circ} C)$

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
"H" Input Voltage	VIH		2.0		Vcc	V
"L" Input Voltage	VIL		-0.5		0.8	V
"H" Output Voltage	V _{OH}	I _{OH} = -100µА	2.4			V
"L" Output Voltage	VOL	I _{OL} = 1.6 mA			0.4	V
Input Leak Current	ILI I	$V_{I} = 0 \sim Vcc$			10	μA
Output Leak Current	1L0	V _O = 0 ~ Vcc			10	μA
Power Supply Current	lcc	Vcc = 5.5V			125	mA
Input Capacity	C,	V _I = 0V, V _O = 0V f = 1 MHz			6	pF
Output Capacity	Co	$Ta = 25^{\circ}C$			12	pF

