OKI semiconductor MSM2932RS

32,768-BITS STATIC-32K MASK ROM

GENERAL DESCRIPTION

The MSM2932RS is a 32,768-bits static, N channel MOS Read only memory organized as 4,096 words by 8 bits. The three-state outputs and TTL inputs/outputs level allow for direct interface with common system bus structures. The MSM2932RS single +5 V power supply and 300 ns access time are both ideal for usage with high performance microcomputers.

The two chip selects CS_1 and CS_2 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 32K EP·ROM.

2) Chip select CS₁ and CS₂ logic table.

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

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

FEATURES

Organization

- Static Operation
 No clocks required
- Supply Voltage 5 V ± 10%
- Access Time
- Power Dissipation
- Input Voltage
- 300 ns Max. 550 mW Max.

4096 W x 8 bit

- VIH = 2.0 V Min.,
 - $V_{1L} = 0.8 V Max.$

Output Voltage

• Package

 $V_{OH} = 2.4 V Min.,$ $V_{OL} = 0.45 V Max.$ 24 PIN DIP



ABSOLUTE MAXIMUM RATINGS

Rating	Symbol	Value	Unit V	
Supply Voltage	Vcc	-0.5 to +7.0		
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	°C	

RECOMMENDED OPERATING CONDITIONS

Parameter	Symbol	Min.	Түр.	Max.	Unit
Supply Voltage	Vcc	4,5	5.0	5.5	V
"H" Input Voltage	VIH	2.2		Vcc	V
"L" Input Voltage	VIL	-0.5		0.8	v

DC CHARACTERISTICS

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

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	VOH	I _{OH} = -100μA	2.4			V
"L" Output Voltage	VOL	I _{OL} = 1.6 mA			0.4	V
Input Leak Current	ILI.	V _I = 0 ~ Vcc			10	μA
Output Leak Current	ILO	$V_{O} = 0 \sim Vcc$			10	μA
Power Supply Current	lcc	Vcc = 5.25V			100	mA
Input Capacity	C,	V _I = 0V, V _O = 0V f = 1 MHz			6	pF
Output Capacity	Co	$T = T MHZ$ $Ta = 25^{\circ}C$			12	pF

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	tACC		300	ns
Chip Select Access time	tcs		100	ns
Output Disable Delay time	^t DF		100	ns



HIGH Z

Output ----