Device Information

HCS00MS

NAND-Gate, 2-Input, Quad, Rad-Hard, High-Speed, CMOS, Logic

DS **Get Datasheet**

Ordering Information

Part No.	Status	Temp.	Package	MSL	SMD	Price US $	
HCS00DMSR	Active	-	14 Ld SBDIP	N/A	5962R9572401VCC	Contact Us	Buy
HCS00HMSR	Active	-	Other	N/A	-	Contact Us	Buy
HCS00KMSR	Active	-	14 Ld FlatPack	N/A	5962R9572401VXC	Contact Us	Buy

The price listed is the manufacturer's suggested retail price for quantities between 100 and 999 units. However, prices in today's market are fluid and may change without notice.
MSL = Moisture Sensitivity Level - per IPC/JEDEC J-STD-020
SMD = Standard Microcircuit Drawing

Description

The Intersil HCS00MS is a Radiation Hardened Quad 2-Input NAND Gate. A high on both inputs forces the output to a Low state.

The HCS00MS utilizes advanced CMOS/SOS technology to achieve high-speed operation. This device is a member of radiation hardened, high-speed, CMOS/SOS Logic Family.

The HCS00MS is supplied in a 14 lead Ceramic flatpack (K suffix) or a SBDIP Package (D suffix).

Key Features

- 3 Micron Radiation Hardened SOS CMOS
- Total Dose 200K RAD (Si)
- SEP Effective LET No Upsets: >100 MEV-cm^2/mg
- Single Event Upset (SEU) Immunity < 2 x 10^{-9} Errors/Bit-Day (Typ)
- Dose Rate Survivability: >1 x 10^{12} RAD (Si)/s
- Dose Rate Upset >10^{10} RAD (Si)/s 20ns Pulse
- Cosmic Ray Upset Immunity < 2 x 10^{-9} Errors/Gate Day (Typ)
- Latch-Up Free Under Any Conditions
- Military Temperature Range: -55ºC to +125ºC
- Significant Power Reduction Compared to LSTTL ICs
- DC Operating Voltage Range: 4.5V to 5.5V
- Input Logic Levels
  - VIL = 30% of VCC Max
  - VIH = 70% of VCC Min
- Input Current Levels Ii d 5µA at VOL, VOH

Related Documentation

Datasheet(s):
- [Radiation Hardened Quad 2-Input NAND Gate](#)

Military SMD(s):
- [Radiation Hardened Quad 2-Input NAND Gate](#)

Parametric Data

RH Level	200

Related Devices   PT [Parametric Table](#)

Device	Description
[ACS03MS](#)	NAND Gate, Quad 2-Input, Rad-Hard, Advanced Logic, CMOS
[CD4023BMS](#)	NAND, 3-Input, Triple, Rad-Hard, CMOS, Logic
[CD4093BMS](#)	AND-Gate, 2-Input, Schmitt Trigger, Quad, Rad-Hard, CMOS, Logic
[HCS10MS](#)	NAND-Gate, 3-Input, Triple, Rad-Hard, High-Speed, CMOS, Logic
[HCS132MS](#)	NAND-Gate, 2-Input, Schmitt Trigger, Quad, Rad-Hard, High-Speed, CMOS, Logic
[HCTS00MS](#)	NAND-Gate, 2-Input, TTL Inputs, Quad, Rad-Hard, High-Speed, CMOS, Logic
[HCTS20MS](#)	NAND-Gate, 4-Input, TTL Inputs, Dual, Rad-Hard, High-Speed, CMOS, Logic
[HCTS30MS](#)	NAND-Gate, 8-Input, TTL Inputs, Rad-Hard, High-Speed, CMOS, Logic

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