

Device Information

HCS132MS

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

[Get Datasheet](#)

Ordering Information

Part No.	Status	Temp.	Package	MSL	SMD	Price US \$	
HCS132DMSR	Active	-	14 Ld SBDIP	N/A	5962R9572601VCC	Contact Us	Buy
HCS132HMSR	Active	-	Other	N/A	-	Contact Us	Buy
HCS132KMSR	Active	-	14 Ld FlatPack	N/A	5962R9572601VXC	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 HCS132MS is a Radiation Hardened Quad 2-Input NAND Schmitt Trigger inputs. A high on both inputs forces the output to a Low state.

The HCS132MS 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 HCS132MS 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-cm²/mg
- Single Event Upset (SEU) Immunity < 2 x 10⁻⁹ Errors/Bit-Day (Typ)
- Dose Rate Survivability: >1 x 10¹² RAD (Si)/s
- Dose Rate Upset >10¹⁰ 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: -55°C to +125°C
- 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 I_{id} 5μA at VOL, VOH

Related Documentation



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



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

Parametric Data

RH Level	200
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Related Devices



[Parametric Table](#)

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
HCS00MS	NAND-Gate, 2-Input, Quad, Rad-Hard, High-Speed, CMOS, Logic
HCS10MS	NAND-Gate, 3-Input, Triple, 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

