

Device Information

HCS08MS

[Printer Friendly Version](#)

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

[Get Datasheet](#)

Ordering Information

Part No.	Status	Temp.	Package	MSL	SMD	Price US \$	
HCS08DMSR	Active	-	14 Ld SBDIP	N/A	5962R9568001VCC	Contact Us	Buy
HCS08HMSR	Active	-	Other	N/A	-	Contact Us	Buy
HCS08KMSR	Active	-	14 Ld FlatPack	N/A	5962R9568001VXC	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 HCS08MS is a Radiation Hardened Quad 2-Input AND Gate. A high on both inputs force the output to a High state.



The HCS08MS 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 HCS08MS is supplied in a 14 lead Ceramic Flatpack Package (K suffix) or a 14 lead 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 Rads (Si)/s
- Dose Rate Upset >10¹⁰ RAD(Si)/s 20ns Pulse
- Latch-Up Free Under Any Conditions
- Military Temperature Range: -55°C to +12°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 AND Gate](#)
-  Military SMD(s):
- [Radiation Hardened Quad 2-Input AND Gate](#)

Parametric Data

RH Level	200
----------	-----

Related Devices [Parametric Table](#)

ACS08MS	AND Gate, Quad 2-Input, Rad-Hard, Advanced Logic, CMOS
ACTS08MS	AND Gate, 2-Input, Quad, TTL Inputs, Rad-Hard, Advanced Logic, CMOS
CD4073BMS	AND-Gate, 3-Input, Triple, Rad-Hard, CMOS, Logic
CD4081BMS	AND-Gate, 2-Input, Quad, Rad-Hard, CMOS, Logic
HCS11MS	AND-Gate, 3-Input, Triple, Rad-Hard, High-Speed, CMOS, Logic
HCTS08MS	AND-Gate, 2-Input, TTL Inputs, Quad, Rad-Hard, High-Speed, CMOS, Logic

[Contact Us](#) | [About Us](#) | [Legal](#) | [Privacy](#) | [Subscribe](#) | [Site Map](#) | [Intranet](#)



©2004. All rights reserved.