

Rochester Electronics Manufactured Components

Rochester branded components are manufactured using either die/wafers purchased from the original suppliers or Rochester wafers recreated from the original IP. All recreations are done with the approval of the OCM.

Parts are tested using original factory test programs or Rochester developed test solutions to guarantee product meets or exceed the OCM data sheet.

Quality Overview

- ISO-9001
- AS9120 certification
- Qualified Manufacturers List (QML) MIL-PRF-35835
 - Class Q Military
 - Class V Space Level
- Qualified Suppliers List of Distributors (QSLD)
 - Rochester is a critical supplier to DLA and meets all industry and DLA standards.

Rochester Electronics, LLC is committed to supplying products that satisfy customer expectations for quality and are equal to those originally supplied by industry manufacturers.

The original manufacturer's datasheet accompanying this document reflects the performance and specifications of the Rochester manufactured version of this device. Rochester Electronics guarantees the performance of its semiconductor products to the original OEM specifications. 'Typical' values are for reference purposes only. Certain minimum or maximum ratings may be based on product characterization, design, simulation, or sample testing.

Complete Data Sheet available via web, Harris' home page: <http://www.semi.harris.com> or via Harris AnswerFAX, see Section 17

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Features

- Low Power Consumption
- Break-Before-Make Switching (Typ)
 - t_{OFF} 130ns
 - t_{ON} 150ns
- TTL, CMOS Compatible
- Low $r_{DS(ON)}$ $\leq 50\Omega$
- Single Supply Operation
- True Second Source

Description

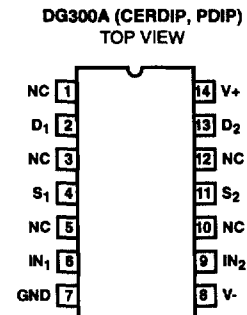
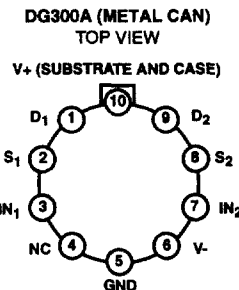
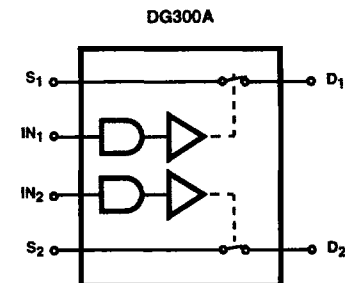
The DG300A through DG303A family of monolithic CMOS switches are truly compatible second source of the original manufacturer. The switches are latch-proof and are designed to block signals up to $30V_{P-P}$ when OFF. Featuring low leakage and low power consumption, these switches are ideally suited for precision application in instrumentation, communication, data acquisition and battery powered applications. Other key features include Break-Before-Make switching, TTL and CMOS compatibility, and low ON resistance. Single supply operation (for positive switch voltages) is possible by connecting V- to 0V.

Ordering Information

PART NUMBER	TEMP. RANGE (°C)	PACKAGE	PKG. NO.
DG300AAK	-55 to 125	14 Ld CERDIP	F14.3
DG301AAK	-55 to 125	14 Ld CERDIP	F14.3
DG302AAK	-55 to 125	14 Ld CERDIP	F14.3
DG303AAK	-55 to 125	14 Ld CERDIP	F14.3
DG300ABK	-25 to 85	14 Ld CERDIP	F14.3
DG301ABK	-25 to 85	14 Ld CERDIP	F14.3
DG302ABK	-25 to 85	14 Ld CERDIP	F14.3
DG303ABK	-25 to 85	14 Ld CERDIP	F14.3
DG300ACK	0 to 70	14 Ld CERDIP	F14.3
DG301ACK	0 to 70	14 Ld CERDIP	F14.3
DG302ACK	0 to 70	14 Ld CERDIP	F14.3
DG303ACK	0 to 70	14 Ld CERDIP	F14.3
DG300ACJ	0 to 70	14 Ld PDIP	E14.3

PART NUMBER	TEMP. RANGE (°C)	PACKAGE	PKG. NO.
DG301ACJ	0 to 70	14 Ld PDIP	E14.3
DG302ACJ	0 to 70	14 Ld PDIP	E14.3
DG303ACJ	0 to 70	14 Ld PDIP	E14.3
DG300AAA	-55 to 125	10 Pin Metal Can	T10.B
DG301AAA	-55 to 125	10 Pin Metal Can	T10.B
DG303ACY	0 to 70	16 Ld SOIC	M16.3
DG300AAA/883B	-55 to 125	10 Pin Metal Can	T10.B
DG300AAK/883B	-55 to 125	14 Ld CERDIP	F14.3
DG301AAA/883B	-55 to 125	10 Pin Metal Can	T10.B
DG301AAK/883B	-55 to 125	14 Ld CERDIP	F14.3
DG302AAK/883B	-55 to 125	14 Ld CERDIP	F14.3
DG303AAK/883B	-55 to 125	14 Ld CERDIP	F14.3

Functional Diagrams and Pinouts



TRUTH TABLE

LOGIC	SWITCH
0	OFF
1	ON

Logic "0" $\leq 0.8V$, Logic "1" $\geq 4.0V$; Two SPST switches per package (switches shown for Logic "1" input)