

DESCRIPTION

The SG2000 series integrates seven NPN Darlington pairs with internal suppression diodes to drive lamps, relays, and solenoids in many military, aerospace, and industrial applications that require severe environments. All units feature open collector outputs with greater than 50V breakdown voltages combined with 500mA current carrying capabilities. Five different input configurations provide optimized

designs for interfacing with DTL, TTL, PMOS, or CMOS drive signals. These devices are designed to operate from -55°C to 125°C ambient temperature in a 16-pin dual in line ceramic (J) package and 20-pin Leadless Chip Carrier (LCC). The plastic dual in-line (N) is designed to operate over the commercial temperature range of 0°C to 70°C.

KEY FEATURES

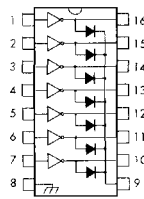
- SEVEN NPN DARLINGTON PAIRS
- -55°C TO 125°C AMBIENT OPERATING TEMPERATURE RANGE
- COLLECTOR CURRENTS TO 600mA
- OUTPUT VOLTAGES FROM 50V TO 95V
- INTERNAL CLAMPING DIODES FOR INDUCTIVE LOADS
- DTL, TTL, PMOS, OR CMOS COMPATIBLE INPUTS
- HERMETIC CERAMIC PACKAGE

HIGH RELIABILITY FEATURES

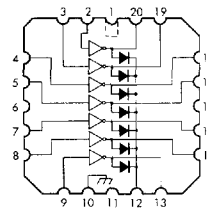
- AVAILABLE TO MIL-STD-883B AND DESC SMD
- MIL-M38510/14101BEA - JAN2001J
- MIL-M38510/14102BEA - JAN2002J
- MIL-M38510/14103BEA - JAN2003J
- MIL-M38510/14104BEA - JAN2004J
- LINFINITY LEVEL "S" PROCESSING AVAIL.

COMPLETE SPECIFICATIONS AVAILABLE FROM "LIN" FAX SYSTEM
(SEE PAGE 4-1) AND 1990/91 SILICON GENERAL DATABOOK

PACKAGE PIN OUTS



J & N PACKAGE
(Top View)



L PACKAGE
(Top View)

PACKAGE ORDER INFORMATION

T_A (°C)	N Plastic Dip 16-pin	J Ceramic Dip 16-pin	L Ceramic LCC 20-pin
0 to 70	SG2003N SG2023N	—	—
-55 to 125	—	SG20xxJ	SG20xxL
MIL-STD-883	—	SG20xxJ/883B	SG20xxL/883B
DESC	—	SG20xxJ/DESC	—
	—	JAN2001J	—
	—	JAN2002J	—
JAN	—	JAN2003J	—
	—	JAN2004J	—

"xx" is determined by selection guide, see next page.

FOR FURTHER INFORMATION CALL (714) 898-8121

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SG2000 Series

HIGH-VOLTAGE MEDIUM CURRENT DRIVER ARRAYS

PRODUCTION DATA SHEET

SELECTION GUIDE

Device	V _{cc} Max	I _c Max	Logic Inputs
SG2001	50V	500mA	General Purpose PMOS, CMOS
SG2002	50V	500mA	14V-25V PMOS
SG2003	50V	500mA	5V TTL, CMOS
SG2004	50V	500mA	6V-15V CMOS, PMOS
SG2011	50V	600mA	General Purpose PMOS, CMOS
SG2012	50V	600mA	14V-25V PMOS
SG2013	50V	600mA	5V TTL, CMOS
SG2014	50V	600mA	6V-15V CMOS, PMOS
SG2015	50V	600mA	High Output TTL
SG2021	95V	500mA	General Purpose PMOS, CMOS
SG2023	95V	500mA	5V TTL, CMOS
SG2024	95V	500mA	6V-15V CMOS, PMOS