WINSOURCE ELECTRONICS

THE DATASHEET OF

SG2803J

High Voltage Medium Current Driver Arrays

Description

The SG2800 series integrates eight 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 Darlington array are designed to operate from -55°C to 125°C ambient temperature in a 18-pin dual in-line ceramic (J) package and 20-pin leadless chip carrier (LCC).

In addition a plastic version is available in 18 lead SOWB (DW) package with a reduced temperature range of 0°C to 70°C.

Features

- Eight NPN Darlington Pairs
- Collector Currents to 600mA
- Output Voltages from 50V to 95V
- Internal Clamping Diodes for Inductive loads
- DTL, TTL, PMOS, or CMOS Compatible inputs

High Reliability Features

- Available To MIL-STD-883 – 883, ¶ 1.2.1
- Available to DSCC
  - Standard Microcircuit Drawing (SMD)
- MIL-M38510/14106BVA - SG2801J-JAN
- MIL-M38510/14107BVA - SG2802J-JAN
- MIL-M38510/14108BVA - SG2803J-JAN
- MIL-M38510/14109BVA - SG2804J-JAN
- MSC-AMS Level "S" Processing Available

Schematics (each Darlington pair)

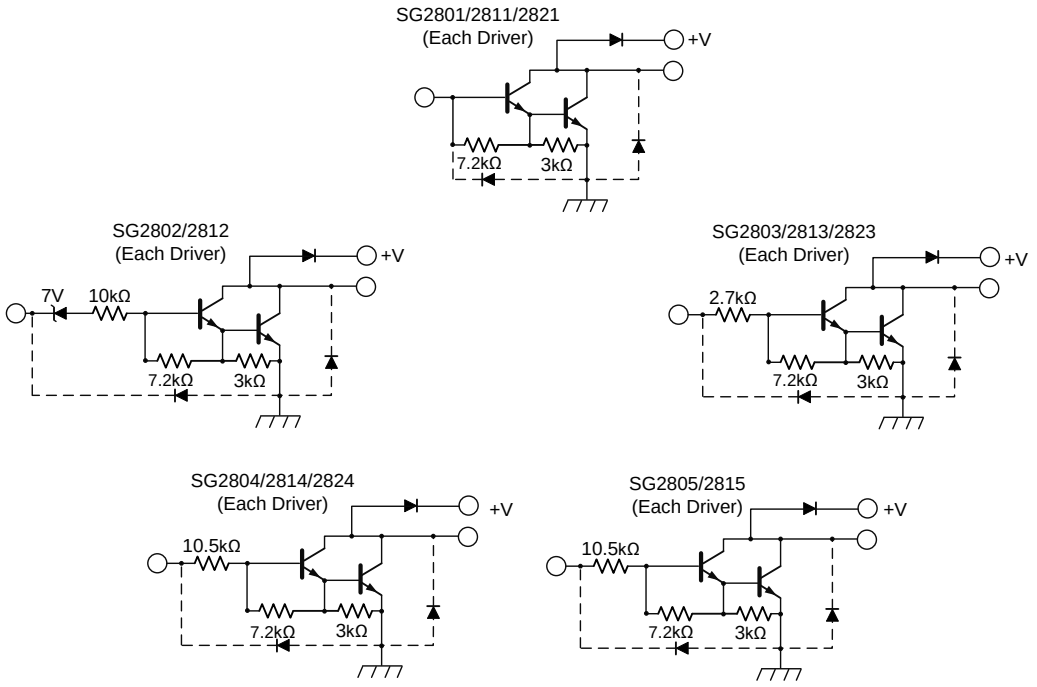
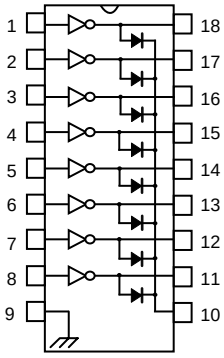
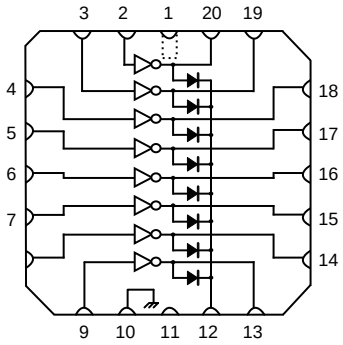


Figure 1 · Schematics (showing each Darlington pair)

Connection Diagrams and Ordering Information

Ambient Temperature	Type	Package	Part Number	Packaging Type	Connection Diagram
-55°C to 125°C	J	18-Pin Ceramic DIP Package	SG28XXJ-883B SG2801J-JAN SG2802J-JAN SG2803J-JAN SG2804J-JAN SG2803J-DESC SG2821J-DESC SG2823J-DESC SG2824J-DESC SG28XXJ	CERDIP	
0°C to 70°C	DW	18-Pin Plastic SOIC Package	SG2803DW	SOWB	DW Package: RoHS Compliant / Pb-free Transition DC: 0516 Pinout same as J package DW Package: RoHS / Pb-free 100% Matte Tin Lead Finish
-55°C to 125°C	L	20-Pin Ceramic Leadless Chip Carrier	SG28XXL-883B SG2803L-DESC SG2821L-DESC SG2823L-DESC SG2824L-DESC SG28XXL	CLCC	

Note:

1. Contact factory for JAN and DESC product availability.
2. All parts are viewed from the top.
3. See Selection Guide for specific device types.
4. Hermetic Packages J, L use Pb37/Sn63 hot solder lead finish, contact factory for availability of RoHS versions.

Absolute Maximum Ratings[1]

Parameter	Value	Units
Output Voltage, V_{CE} (SG2800, 2810 series)	50	V
(SG2820 series)	95	V
Input Voltage, V_{IN} (SG2802,3,4 series)	30	V
Continuous Input Current, I_{IN}	25	mA
Continuous Collector Current, IC (SG2800, 2820)	500	mA
(SG2810)	600	mA
Operating Junction Temperature		
Plastic (DW Package)	150	°C
Hermetic (J, L Packages)	150	°C
Storage Temperature Range	-65 to 150	°C
Lead Temperature (Soldering 10 sec.)	300	°C
RoHS Peak Package Solder Reflow Temperature (40 sec. max. exp.)	260 (+0, -5)	°C

Note: 1. Exceeding these ratings could cause damage to the device. All voltages are with respect to ground. Currents are positive into, negative out of specified terminal.

Thermal Data

Parameter	Value	Units
J Package		
Thermal Resistance-Junction to Case, θ_{JC}	25	°C/W
Thermal Resistance-Junction to Ambient, θ_{JA}	70	°C/W
L Package		
Thermal Resistance-Junction to Case, θ_{JC}	35	°C/W
Thermal Resistance-Junction to Ambient, θ_{JA}	120	°C/W
DW Package		
Thermal Resistance-Junction to Ambient, θ_{JA}	90	°C/W

Note:

1. Junction Temperature Calculation: $T_J = T_A + (P_D \times \theta_{JA})$.
2. The above numbers for θ_{JC} are maximums for the limiting thermal resistance of the package in a standard mounting configuration. The θ_{JA} numbers are meant to be guidelines for the thermal performance of the device/pcboard system. All of the above assume no ambient airflow.

Recommended Operating Conditions[1]

Symbol	Parameter	Recommended Operating Conditions			Units
		Min.	Typ.	Max.	
V_{CE}	Output Voltage				
	SG2800, SG2820 series			50	V
	SG2810 series			95	V
I_C	Peak Collector Current, I_C				
	SG2800, SG2820 series			350	mA
	SG2810 series			500	mA
Operating Ambient Temperature Range:					
	J, L Packages	-55		125	°C
	DW Packages	0		70	°C

Note: 1. Range over which the device is functional.

Selection Guide

Device	V_{CE} Max	I_C Max	Logic Inputs
SG2801	50V	500mA	General Purpose PMOS, CMOS
SG2802			14V-25V PMOS
SG2803			5V TTL, CMOS
SG2804			6V-15V CMOS, PMOS
SG2811		600mA	General Purpose PMOS, CMOS
SG2812			14V-25V PMOS
SG2813			5V TTL, CMOS
SG2814			6V-15V CMOS, PMOS
SG2815			High Output TTL
SG2821	95V	500mA	General Purpose PMOS, CMOS
SG2823			5V TTL, CMOS
SG2824			6V-15V CMOS, PMOS

Electrical Characteristics

(Unless otherwise specified, these specifications apply over the operating ambient temperatures of -55°C ≤ T_A ≤ 125°C, for the J & L devices and 0°C ≤ T_A ≤ 70°C, for the DW device. Low duty cycle pulse testing techniques are used which maintains junction and case temperatures equal to the ambient temperature.)

Table 1 · SG2801 thru SG2804

Symbol	Parameter	Applicable Devices	Temp.	Test Conditions	Limits			Units
					Min	Type	Max	
I_{CEX}	Output Leakage Current (Figure 2a)	All		V_{CE} = 50V			100	µA
	Output Leakage Current (Figure 2b)	SG2802		V_{CE} = 50V, V_{IN} = 6V			500	µA
		SG2804		V_{CE} = 50V, V_{IN} = 1V			500	µA
$V_{CE(SAT)}$	Collector – Emitter ($V_{CE(SAT)}$) (Figure 3)	All	$T_A = T_{MIN}$	I_C = 350mA, I_B = 850µA		1.6	1.8	V
			$T_A = T_{MIN}$	I_C = 200mA, I_B = 550µA		1.3	1.5	V
			$T_A = T_{MIN}$	I_C = 100mA, I_B = 350µA		1.1	1.3	V
			T_A = 25°C	I_C = 350mA, I_B = 500µA		1.25	1.6	V
			T_A = 25°C	I_C = 200mA, I_B = 350µA		1.1	1.3	V
			T_A = 25°C	I_C = 100mA, I_B = 250µA		0.9	1.1	V
			$T_A = T_{MAX}$	I_C = 350mA, I_B = 500µA		1.6	1.8	V
			$T_A = T_{MAX}$	I_C = 200mA, I_B = 350µA		1.3	1.5	V
			$T_A = T_{MAX}$	I_C = 100mA, I_B = 250µA		1.1	1.3	V
$I_{IN(ON)}$	Input Current (Figure 4)	SG2802		V_{IN} = 17V	480	850	1300	µA
		SG2803		V_{IN} = 3.85V	650	930	1350	µA
		SG2804		V_{IN} = 5V	240	350	500	µA
				V_{IN} = 12V	650	1000	1450	µA
$I_{IN(OFF)}$	Input Current (Figure 5)	All	$T_A = T_{MAX}$	I_C = 500µA	25	50		µA
$V_{IN(ON)}$	Input Voltage (Figure 6)	SG2802	$T_A = T_{MIN}$	V_{CE} = 2V, I_C = 300mA			18	V
			$T_A = T_{MAX}$	V_{CE} = 2V, I_C = 300mA			13	V
		SG2803	$T_A = T_{MIN}$	V_{CE} = 2V, I_C = 200mA			3.3	V
			$T_A = T_{MIN}$	V_{CE} = 2V, I_C = 250mA			3.6	V
			$T_A = T_{MIN}$	V_{CE} = 2V, I_C = 300mA			3.9	V
			$T_A = T_{MAX}$	V_{CE} = 2V, I_C = 200mA			2.4	V
			$T_A = T_{MAX}$	V_{CE} = 2V, I_C = 250mA			2.7	V
			$T_A = T_{MAX}$	V_{CE} = 2V, I_C = 300mA			3.0	V
		SG2804	$T_A = T_{MIN}$	V_{CE} = 2V, I_C = 125mA			6.0	V
			$T_A = T_{MIN}$	V_{CE} = 2V, I_C = 200mA			8.0	V
			$T_A = T_{MIN}$	V_{CE} = 2V, I_C = 275mA			10	V
			$T_A = T_{MIN}$	V_{CE} = 2V, I_C = 350mA			12	V
			$T_A = T_{MAX}$	V_{CE} = 2V, I_C = 125mA			5.0	V
			$T_A = T_{MAX}$	V_{CE} = 2V, I_C = 200mA			6.0	V
			$T_A = T_{MAX}$	V_{CE} = 2V, I_C = 275mA			7.0	V
			$T_A = T_{MAX}$	V_{CE} = 2V, I_C = 350mA			8.0	V

Symbol	Parameter	Applicable Devices	Temp.	Test Conditions	Limits			Units
					Min	Type	Max	
h_{FE}	D-C Forward Current Transfer Ratio (Figure 3)	SG2801	$T_A = T_{MIN}$	V_{CE} = 2V, I_C = 350mA	500			
			T_A = 25°C	V_{CE} = 2V, I_C = 350mA	1000			
C_{IN}	Input Capacitance[1]	All	T_A = 25°C			15	25	pF
TPLH	Turn-On Delay		T_A = 25°C	0.5 E_{IN} to 0.5 E_{OUT}		250	1000	ns
TPHL	Turn-Off Delay		T_A = 25°C	0.5 E_{IN} to 0.5 E_{OUT}		250	1000	ns
I_R	Clamp Diode Leakage Current (Figure 7)			V_R = 50V			50	µA
V_F	Clamp Diode Forward Voltage (Figure 8)			I_F = 350mA		1.7	2.0	V
Note: [1]This parameter, although guaranteed, are not tested in production.								

Table 2 · SG2811 thru SG2815

Symbol	Parameter	Applicable Devices	Temp.	Test Conditions	Limits			Units
					Min	Type	Max	
I_{CEX}	Output Leakage Current (Figure 2a)	All		V_{CE} = 50V			100	µA
	Output Leakage Current (Figure 2b)	SG2812		V_{CE} = 50V, V_{IN} = 6V			500	µA
		SG2814		V_{CE} = 50V, V_{IN} = 1V			500	µA
$V_{CE(SAT)}$	Collector – Emitter ($V_{CE(SAT)}$) (Figure 3)	All	$T_A = T_{MIN}$	I_C = 500mA, I_B = 1100µA		1.8	1.1	V
			$T_A = T_{MIN}$	I_C = 350mA, I_B = 850µA		1.6	1.8	V
			$T_A = T_{MIN}$	I_C = 200mA, I_B = 550µA		1.3	1.5	V
			T_A = 25°C	I_C = 500mA, I_B = 600µA		1.7	1.9	V
			T_A = 25°C	I_C = 350mA, I_B = 500µA		1.25	1.6	V
			T_A = 25°C	I_C = 200mA, I_B = 350µA		1.1	1.3	V
			$T_A = T_{MAX}$	I_C = 500mA, I_B = 600µA		1.8	2.1	V
			$T_A = T_{MAX}$	I_C = 350mA, I_B = 500µA		1.6	1.8	V
			$T_A = T_{MAX}$	I_C = 200mA, I_B = 350µA		1.3	1.5	V
$I_{IN(ON)}$	Input Current (Figure 4)	SG2812		V_{IN} = 17V	480	850	1300	µA
		SG2813		V_{IN} = 3.85V	650	930	1350	µA
		SG2814		V_{IN} = 5V	240	350	500	µA
				V_{IN} = 12V	650	1000	1450	µA
		SG2815		V_{IN} = 3V	1180	1500	2400	µA
$I_{IN(OFF)}$	Input Current (Figure 5)	All	$T_A = T_{MAX}$	I_C = 500µA	25	50		µA
$V_{IN(ON)}$	Input Voltage (Figure 6)	SG2812	$T_A = T_{MIN}$	V_{CE} = 2V, I_C = 500mA			23.5	V
			$T_A = T_{MAX}$	V_{CE} = 2V, I_C = 500mA			17	V

Symbol	Parameter	Applicable Devices	Temp.	Test Conditions	Limits			Units
					Min	Type	Max	
$V_{IN(ON)}$	Input Voltage (Figure 6)	SG2813	$T_A = T_{MIN}$	V_{CE} = 2V, I_C = 250mA			3.6	V
			$T_A = T_{MIN}$	V_{CE} = 2V, I_C = 300mA			3.9	V
			$T_A = T_{MIN}$	V_{CE} = 2V, I_C = 500mA			6.0	V
			$T_A = T_{MAX}$	V_{CE} = 2V, I_C = 250mA			2.7	V
			$T_A = T_{MAX}$	V_{CE} = 2V, I_C = 300mA			3.0	V
			$T_A = T_{MAX}$	V_{CE} = 2V, I_C = 500mA			3.5	V
		SG2814	$T_A = T_{MIN}$	V_{CE} = 2V, I_C = 275mA			10	V
			$T_A = T_{MIN}$	V_{CE} = 2V, I_C = 350mA			12	V
			$T_A = T_{MIN}$	V_{CE} = 2V, I_C = 500mA			17	V
			$T_A = T_{MAX}$	V_{CE} = 2V, I_C = 275mA			7.0	V
			$T_A = T_{MAX}$	V_{CE} = 2V, I_C = 350mA			8.0	V
			$T_A = T_{MAX}$	V_{CE} = 2V, I_C = 500mA			9.5	V
		SG2815	$T_A = T_{MIN}$	V_{CE} = 2V, I_C = 350mA			3.0	V
			$T_A = T_{MIN}$	V_{CE} = 2V, I_C = 500mA			3.5	V
			$T_A = T_{MAX}$	V_{CE} = 2V, I_C = 350mA			2.4	V
			$T_A = T_{MAX}$	V_{CE} = 2V, I_C = 500mA			2.6	V
h_{FE}	D-C Forward Current Transfer Ratio (Figure 3)	SG2811	$T_A = T_{MIN}$	V_{CE} = 2V, I_C = 500mA	450			
			T_A = 25°C	V_{CE} = 2V, I_C = 500mA	900			
C_{IN}	Input Capacitance[1]	All	T_A = 25°C			15	25	pF
TPLH	Turn-On Delay		T_A = 25°C	0.5 E_{IN} to 0.5 E_{OUT}		250	1000	ns
TPHL	Turn-Off Delay		T_A = 25°C	0.5 E_{IN} to 0.5 E_{OUT}		250	1000	ns
I_R	Clamp Diode Leakage Current (Figure 7)			V_R = 50V			50	µA
V_F	Clamp Diode Forward Voltage (Figure 8)			I_F = 350mA		1.7	2.0	V
				I_F = 500mA			2.5	V
Note: [1]This parameter, although guaranteed, are not tested in production.								

Table 3 · SG2821 thru SG2824

Symbol	Parameter	Applicable Devices	Temp.	Test Conditions	Limits			Units
					Min	Type	Max	
I_{CEX}	Output Leakage Current (Figure 2a)	All		V_{CE} = 95V			100	µA
	Output Leakage Current (Figure 2b)	SG2824		V_{CE} = 95V, V_{IN} = 1V			500	µA

Symbol	Parameter	Applicable Devices	Temp.	Test Conditions	Limits			Units
					Min	Type	Max	
$V_{CE(SAT)}$	Collector – Emitter ($V_{CE(SAT)}$) (Figure 3)	All	$T_A = T_{MIN}$	I_C = 350mA, I_B = 850µA		1.6	1.8	V
			$T_A = T_{MIN}$	I_C = 200mA, I_B = 550µA		1.3	1.5	V
			$T_A = T_{MIN}$	I_C = 100mA, I_B = 350µA		1.1	1.3	V
			T_A = 25°C	I_C = 350mA, I_B = 500µA		1.25	1.6	V
			T_A = 25°C	I_C = 200mA, I_B = 350µA		1.1	1.3	V
			T_A = 25°C	I_C = 100mA, I_B = 250µA		0.9	1.1	V
			$T_A = T_{MAX}$	I_C = 350mA, I_B = 500µA		1.6	1.8	V
			$T_A = T_{MAX}$	I_C = 200mA, I_B = 350µA		1.3	1.5	V
			$T_A = T_{MAX}$	I_C = 100mA, I_B = 250µA		1.1	1.3	V
$I_{IN(ON)}$	Input Current (Figure 4)	SG2823		V_{IN} = 3.85V	650	930	1350	µA
		SG2824		V_{IN} = 5V	240	350	500	µA
				V_{IN} = 12V	650	1000	1450	µA
$I_{IN(OFF)}$	Input Current (Figure 5)	All	$T_A = T_{MAX}$	I_C = 500µA	25	50		µA
$V_{IN(ON)}$	Input Voltage (Figure 6)	SG2823	$T_A = T_{MIN}$	V_{CE} = 2V, I_C = 200mA			3.3	V
			$T_A = T_{MIN}$	V_{CE} = 2V, I_C = 250mA			3.6	V
			$T_A = T_{MIN}$	V_{CE} = 2V, I_C = 300mA			3.9	V
			$T_A = T_{MAX}$	V_{CE} = 2V, I_C = 200mA			2.4	V
			$T_A = T_{MAX}$	V_{CE} = 2V, I_C = 250mA			2.7	V
			$T_A = T_{MAX}$	V_{CE} = 2V, I_C = 300mA			3.0	V
		SG2824	$T_A = T_{MIN}$	V_{CE} = 2V, I_C = 125mA			6.0	V
			$T_A = T_{MIN}$	V_{CE} = 2V, I_C = 200mA			8.0	V
			$T_A = T_{MIN}$	V_{CE} = 2V, I_C = 275mA			10	V
			$T_A = T_{MIN}$	V_{CE} = 2V, I_C = 350mA			12	V
			$T_A = T_{MAX}$	V_{CE} = 2V, I_C = 125mA			5.0	V
			$T_A = T_{MAX}$	V_{CE} = 2V, I_C = 200mA			6.0	V
			$T_A = T_{MAX}$	V_{CE} = 2V, I_C = 275mA			7.0	V
			$T_A = T_{MAX}$	V_{CE} = 2V, I_C = 350mA			8.0	V
h_{FE}	D-C Forward Current Transfer Ratio (Figure 3)	SG2821	$T_A = T_{MIN}$	V_{CE} = 2V, I_C = 350mA	500			
			T_A = 25°C	V_{CE} = 2V, I_C = 350mA	1000			
C_{IN}	Input Capacitance[1]	All	T_A = 25°C			15	25	pF
TPLH	Turn-On Delay			0.5 E_{IN} to 0.5 E_{OUT}		250	1000	ns
TPHL	Turn-Off Delay			0.5 E_{IN} to 0.5 E_{OUT}		250	1000	ns
I_R	Clamp Diode Leakage Current (Figure 7)			V_R = 95V			50	µA
V_F	Clamp Diode Forward Voltage (Figure 8)			I_F = 350mA		1.7	2.0	V

Note: [1]This parameter, although guaranteed, are not tested in production.

Parameter Test Figures

(See figure numbers in Electrical Characteristics Tables 1 to 3)

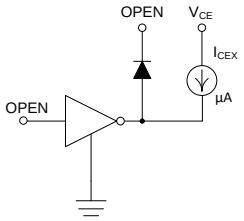


Figure 2a
I_{CEX} Test Circuit

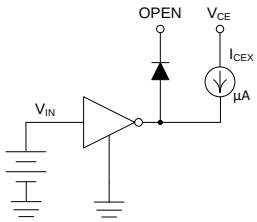


Figure 2b
I_{CEX} Test Circuit

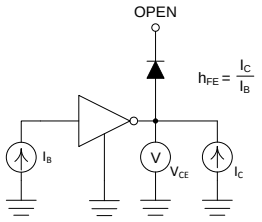


Figure 3
h_{FE}, $V_{CE(sat)}$ Test Circuit

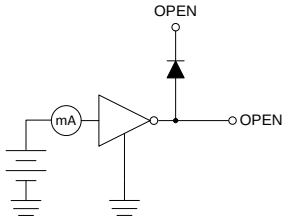


Figure 4
$I_{IN\ (ON)}$ Test Circuit

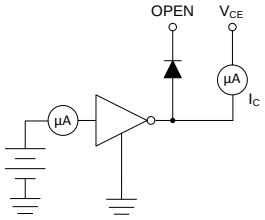


Figure 5
$I_{IN\ (OFF)}$ Test Circuit

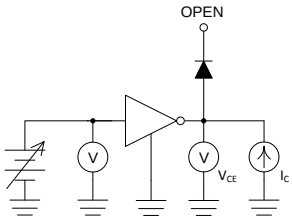


Figure 6
$V_{IN(ON)}$ Test Circuit

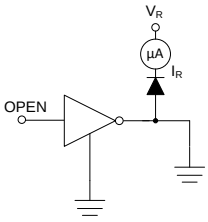


Figure 7
I_R Test Circuit

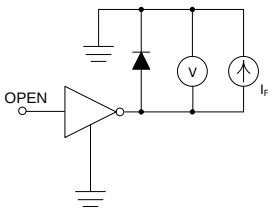


Figure 8
V_F Test Circuit

Characteristic Curves

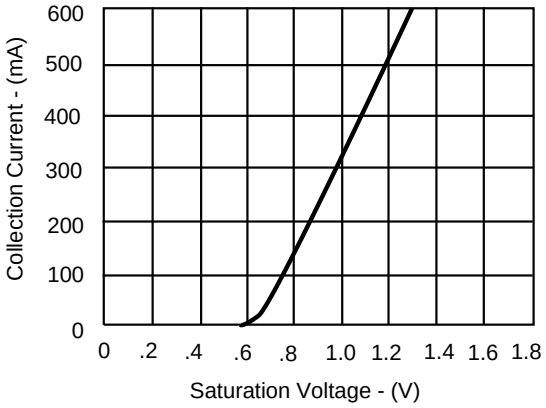


Figure 8 · Output Characteristics

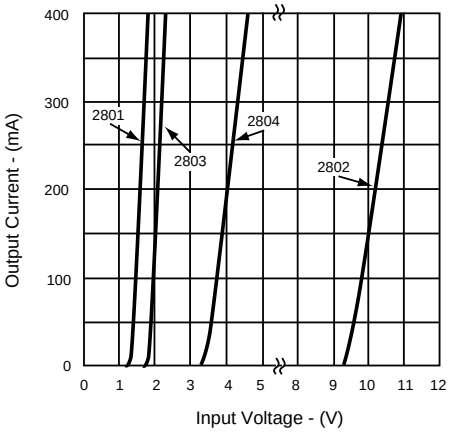


Figure 9 · Output Current Vs. Input Voltage

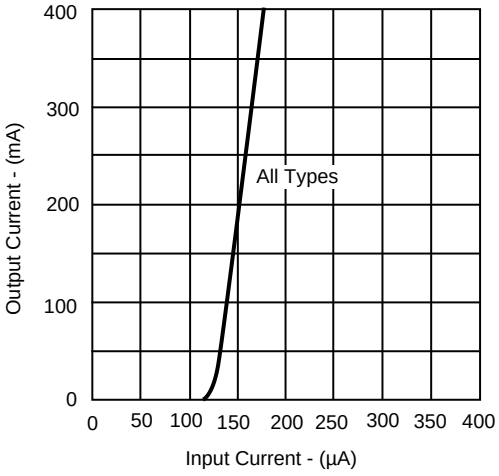


Figure 10 · Output Current Vs. Input Current

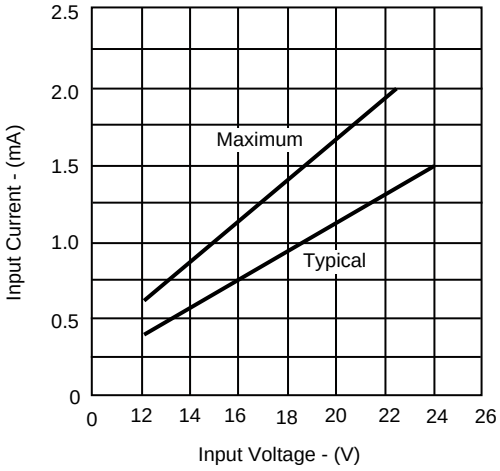


Figure 11 · Input Characteristics - SG2802

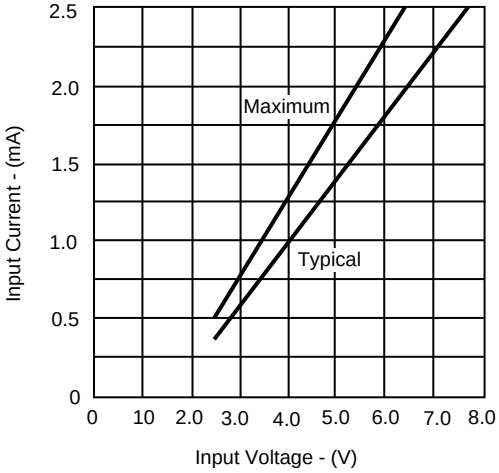


Figure 12 · Input Characteristics - SG2803

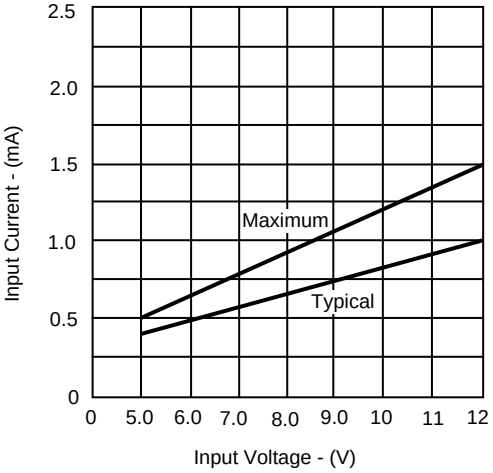


Figure 13 · Input Characteristics - SG2804

Characteristic Curves - Continued

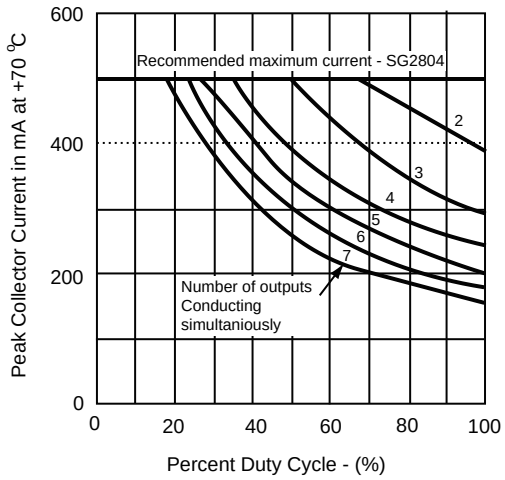
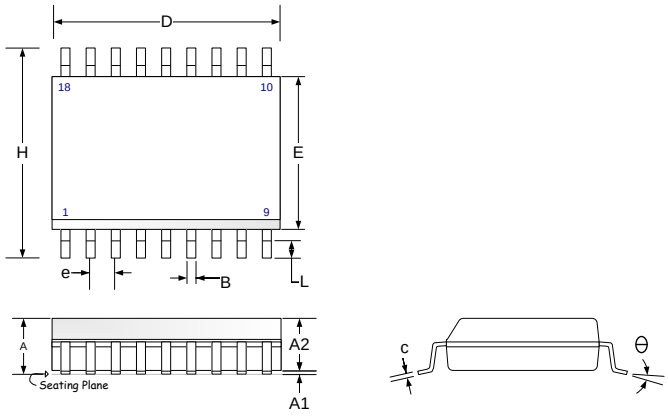


Figure 14 · Peak Collector Current Vs. Duty Cycle

Package Outline Dimensions

Controlling dimensions are in inches, metric equivalents are shown for general information.



Dim	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	2.06	2.65	0.081	0.104
A1	0.10	0.30	0.004	0.012
A2	2.03	2.55	0.080	0.100
B	0.25	0.51	0.010	0.020
c	0.23	0.32	0.009	0.013
D	-	13.21	-	0.520
E	7.40	7.75	0.291	0.305
e	1.27 BSC		0.50 BSC	
H	10.00	10.65	0.394	0.419
L	0.4	1.27	0.016	0.050
Θ	0	8	0	8
*LC	-	0.10	-	0.004

*Lead coplanarity

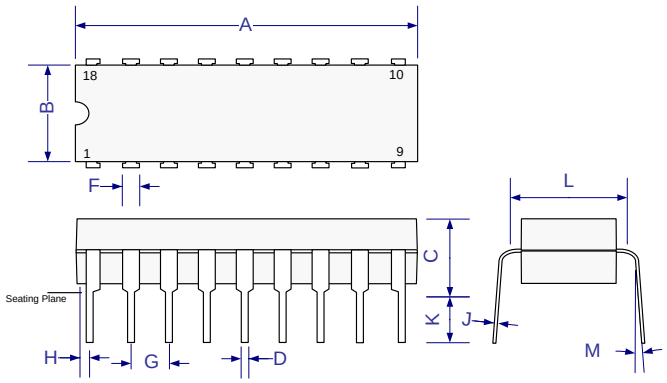
Note:

Dimensions do not include protrusions; these shall not exceed 0.155mm (.006”) on any side. Lead dimension shall not include solder coverage.

Figure 15 · DW Package Dimensions

Package Outline Dimensions

Controlling dimensions are in inches, metric equivalents are shown for general information.

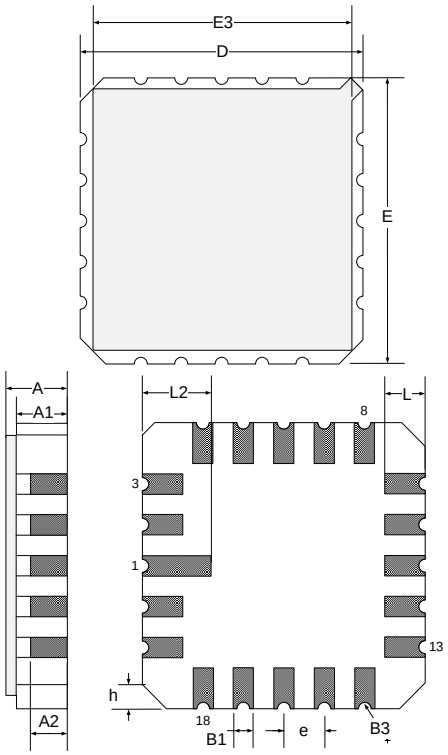


Dim	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	-	24.38	-	0.960
B	5.59	7.11	0.220	0.280
C	-	5.08	-	0.200
D	0.38	0.51	0.015	0.020
F	1.02	1.77	0.040	0.070
G	2.54 BSC		0.100 BSC	
H	-	2.03	-	0.080
J	0.20	0.38	0.008	0.015
K	3.18	5.08	0.125	0.200
L	7.37	7.87	0.290	0.310
M	-	15°	-	15°

Note:

Dimensions do not include protrusions; these shall not exceed 0.155mm (.006") on any side. Lead dimension shall not include solder coverage.

Figure 16 · J 18-Pin Ceramic Dual Inline Package Dimensions

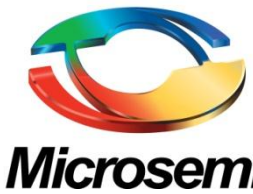


Dim	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
D/E	8.64	9.14	0.340	0.360
E3	-	8.128	-	0.320
e	1.270 BSC		0.050 BSC	
B1	0.635 TYP		0.025 TYP	
L	1.02	1.52	0.040	0.060
A	1.626	2.286	0.064	0.090
h	1.016 TYP		0.040 TYP	
A1	1.372	1.68	0.054	0.066
A2	-	1.168	-	0.046
L2	1.91	2.41	0.075	0.95
B3	0.203R		0.008R	

Note:

1. All exposed metalized area shall be gold plated 60 micro-inch minimum thickness over nickel plated unless otherwise specified in purchase order.

Figure 17 · L 20-Pin Ceramic Leadless Chip Carrier (LCC) Package Outline Dimensions



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