MAX396/MAX397

Precision, 16-Channel/Dual 8-Channel, Low-Voltage, CMOS Analog Multiplexers

General Description

The MAX396/MAX397 low-voltage, CMOS analog multiplexers (muxes) offer low on-resistance (100Ω max), which is matched to within 6Ω between switches and remains flat over the specified signal range (10Ω max). They also offer low leakage over temperature (input off-leakage current less than 1nA at +85°C) and fast switching speeds (transition time less than 250ns). The MAX396 is a 16-channel device, and the MAX397 is a dual, 8-channel device.

The MAX396/MAX397 are fabricated with Maxim's low-voltage silicon-gate process. Design improvements yield extremely low charge injection (5pC max) and guarantee electrostatic-discharge (ESD) protection greater than 2000V per Method 3015.7

These muxes operate with a single +2.7V to +16V supply or with ±2.7V to ±8V dual supplies, while retaining CMOS-logic input compatibility and fast switching. The MAX396/MAX397 are pin compatible with the industry standard MAX306/MAX307, DG406/DG407, and DG506A/DG507A.

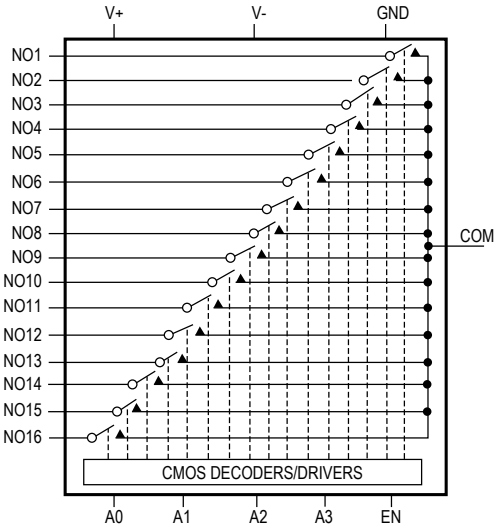
Benefits and Features

- Pin-Compatible with MAX306/MAX307, DG406/DG407, DG506A/DG507A
- Single-Supply Operation (+2.7V to +16V)
  Dual-Supply Operation (±2.7V to ±8V)
- Low On-Resistance (100Ω max)
- Guaranteed R_{ON} Match Between Channels (6Ω max)
- Guaranteed R_{ON} Flatness over Specified Signal Range (10Ω max)
- Guaranteed Low Charge Injection (5pC max)
- Input Off-Leakage Current < 1nA at +85°C
- Output Off-Leakage Current < 2.5nA at +85°C
- Low Power Consumption < 10µW
- TTL/CMOS Compatible

Applications

- Sample-and-Hold Circuits
- Avionics
- Battery-Operated Equipment
- Low-Voltage Data Acquisition Systems
- Automatic Test Equipment
- Communications Systems
- Audio Signal Routing
- Industrial Process Control

Functional Diagrams/Truth Tables



MAX396 16-CHANNEL SINGLE-ENDED MULTIPLEXER

MAX396					
A3	A2	A1	A0	EN	ON SWITCH
X	X	X	X	0	NONE
0	0	0	0	1	1
0	0	0	1	1	2
0	0	1	0	1	3
0	0	1	1	1	4
0	1	0	0	1	5
0	1	0	1	1	6
0	1	1	0	1	7
0	1	1	1	1	8
1	0	0	0	1	9
1	0	0	1	1	10
1	0	1	0	1	11
1	0	1	1	1	12
1	1	0	0	1	13
1	1	0	1	1	14
1	1	1	0	1	15
1	1	1	1	1	16

LOGIC "0" = $V_{AL} \leq 0.8V$, LOGIC "1" = $V_{AH} \geq 2.4V$

Continued at end of data sheet.

19-0404; Rev. 2; 1/16

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Absolute Maximum Ratings

(Voltage referenced to GND, unless otherwise noted.)
V+ .....-0.3V to +17V
V- .....+0.3V to -17V
V+ to V- .....-0.3V to +17V
Voltage into Any Terminal (Note 1)..... (V- - 2V) to (V+ + 2V)
or 30mA (whichever occurs first)
Current into Any Terminal .....±30mA
Peak Current into Any Terminal.....±50mA
Continuous Power Dissipation (T_A = +70°C)
Plastic DIP (derate 14.29mW/°C above +70°C)..... 1143mW
Wide SO (derate 12.50mW/°C above +70°C).....1000mW
SSOP (derate 9.52mW/°C above +70°C) 762mW
PLCC (derate 10.53mW/°C above +70°C).....842mW
CERDIP (derate 16.67mW/°C above +70°C).....1333mW
Operating Temperature Ranges
MAX39_C_I .....0°C to +70°C
MAX39_E_I..... -40°C to +85°C
MAX39_MJI ..... -55°C to +125°C
Storage Temperature Range ..... -65°C to +150°C
Lead Temperature (soldering, 10sec) .....+300°C

Note 1: Signals on any terminal exceeding V+ or V- are clamped by internal diodes. Limit forward current to maximum current rating.

Stresses beyond those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated in the operational sections of the specifications is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

Electrical Characteristics—Dual Supplies

(V+ = +5V ±10%, V- = -5V ±10%, GND = 0V, $V_{AH} = V_{ENH}$ = 2.4V, $V_{AL} = V_{ENL}$ = 0.8V, $T_A = T_{MIN}$ to T_{MAX}, unless otherwise noted.)

PARAMETER	SYMBOL	CONDITIONS				MIN	TYP (Note 2)	MAX	UNITS
SWITCH									
Analog Signal Range	V_{COM}, V_{NO}	(Note 3)				V-		V+	V
Channel On-Resistance	R_{ON}	I_{NO} = 1mA, V_{COM} = ±3.5V		T_A = +25°C			60	100	Ω
				$T_A = T_{MIN}$ to T_{MAX}				125	
On-Resistance Matching Between Channels (Note 4)	ΔR_{ON}	I_{NO} = 1mA, V_{COM} = ±3.5V, V+ = 5V, V- = -5V		T_A = +25°C			1.8	6	Ω
				$T_A = T_{MIN}$ to T_{MAX}				8	
On-Resistance Flatness (Note 5)	$R_{FLAT(ON)}$	I_{NO} = 1mA, V_{COM} = ±3V, V+ = 5V, V- = -5V		T_A = +25°C			5	10	Ω
				$T_A = T_{MIN}$ to T_{MAX}				13	
NO Off-Leakage Current (Note 6)	$I_{NO(OFF)}$	V_{NO} = ±4.5V, V_{COM} = ∓4.5V, V+ = 5.5V, V- = -5.5V		T_A = +25°C		-0.1	0.03	0.1	nA
				$T_A = T_{MIN}$ to T_{MAX}	C, E	-1.0		1.0	
					M	-10		10	
COM Off-Leakage Current (Note 6)	$I_{COM(OFF)}$	V_{COM} = ±4.5V, V_{NO} = ∓4.5V, V+ = 5.5V, V- = -5.5V	MAX396	T_A = +25°C		-0.2	0.05	0.2	nA
				$T_A = T_{MIN}$ to T_{MAX}	C, E	-2.5		2.5	
					M	-40		40	
		V_{COM} = ±4.5V, V_{NO} = ∓4.5V, V+ = 5.5V, V- = -5.5V	MAX397	T_A = +25°C		-0.1	0.03	0.1	
				$T_A = T_{MIN}$ to T_{MAX}	C, E	-2.5		2.5	
					M	-20		20	
COM On-Leakage Current (Note 6)	$I_{COM(ON)}$	V_{COM} = ±4.5V, V_{NO} = 4.5V,	MAX396	T_A = +25°C		-0.4	0.09	0.4	nA
				$T_A = T_{MIN}$ to T_{MAX}	C, E	-5		5	
					M	-60		60	
			MAX397	T_A = +25°C		-0.2	0.05	0.2	
				$T_A = T_{MIN}$ to T_{MAX}	C, E	-2.5		2.5	
					M	-30		30	

Electrical Characteristics —Dual Supplies (continued)

(V+ = +5V ±10%, V- = -5V ±10%, GND = 0V, $V_{AH} = V_{ENH}$ = 2.4V, $V_{AL} = V_{ENL}$ = 0.8V, $T_A = T_{MIN}$ to T_{MAX}, unless otherwise noted.)

PARAMETER	SYMBOL	CONDITIONS		MIN	TYP (Note 2)	MAX	UNITS
DIGITAL LOGIC INPUT							
Logic High Input Voltage	V_{AH}, V_{ENH}			2.4			V
Logic Low Input Voltage	V_{AL}, V_{ENL}					0.8	V
Input Current with Input Voltage High	I_{AH}, I_{ENH}	$V_A = V_{EN}$ = 2.4V		-0.1		0.1	µA
Input Current with Input Voltage Low	I_{AL}, I_{ENL}	$V_A = V_{EN}$ = 0.8V		-0.1		0.1	µA
SUPPLY							
Power-Supply Range				±3		±8	V
Positive Supply Current	I+	$V_{EN} = V_A$ = 0V/V+, V+ = 5.5V, V- = -5.5V	T_A = +25°C	-1		1	µA
Negative Supply Current	I-	$V_{EN} = V_A$ = 0V/V+, V+ = 5.5V, V- = -5.5V		-1		1	µA
Ground Current	I_{GND}	$V_{EN} = V_A$ = 0V/V+, V+ = 5.5V, V- = -5.5V	T_A = +25°C	-1		1	µA
			$T_A = T_{MIN}$ to T_{MAX}	-1		1	
DYNAMIC							
Transition Time	t_{TRANS}	Figure 2	T_A = +25°C		95	150	ns
			$T_A = T_{MIN}$ to T_{MAX}			250	
Break-Before-Make Interval	t_{OPEN}	Figure 4	T_A = +25°C	5	70		ns
Enable Turn-On Time	$t_{ON(EN)}$	Figure 3	T_A = +25°C		100	150	ns
			$T_A = T_{MIN}$ to T_{MAX}			250	
Enable Turn-Off Time	$t_{OFF(EN)}$	Figure 3	T_A = +25°C		55	150	ns
			$T_A = T_{MIN}$ to T_{MAX}			200	
Charge Injection (Note 3)	V_{CTE}	C_L = 100pF, V_{NO} = 0V, Figure 5	T_A = +25°C		2	5	pC
Off-Isolation (Note 7)	V_{ISO}	V_{EN} = 0V, R_L = 1kΩ, f = 100kHz	T_A = +25°C		-75		dB
Crosstalk Between Channels	V_{CT}	V_{EN} = 2.4V, f = 100kHz, V_{NO} = 1Vp-p, R_L = 1kΩ, Figure 7	T_A = +25°C		-92		dB
Logic Input Capacitance	C_{IN}	f = 1MHz	T_A = +25°C		8		pF
NO Off-Capacitance	$C_{NO(OFF)}$	f = 1MHz, $V_{EN} = V_{COM}$ = 0V	T_A = +25°C		11		pF
COM Off-Capacitance	$C_{COM(OFF)}$	f = 1MHz, $V_{EN} = V_{COM}$ = 0V, MAX396	T_A = +25°C		80		pF
		f = 1MHz, $V_{EN} = V_{COM}$ = 0V, MAX397			40		
COM On-Capacitance	$C_{COM(ON)}$	f = 1MHz, $V_{EN} = V_{COM}$ = 0V, MAX396	T_A = +25°C		90		pF
		f = 1MHz, $V_{EN} = V_{COM}$ = 0V, MAX397			68		

Electrical Characteristics—Single +5V Supply

(V+ = +5V ±10%, V- = 0V, GND = 0V, V_{AH} = V_{ENH} = 2.4V, V_{AL} = V_{ENL} = 0.8V, T_A = T_{MIN} to T_{MAX}, unless otherwise noted.)

PARAMETER	SYMBOL	CONDITIONS				MIN	TYP (Note 2)	MAX	UNITS
SWITCH									
Analog Signal Range	V_{COM}, V_{NO}	(Note 3)				V-		V+	V
On-Resistance	R_{ON}	I_{NO} = 1mA, V_{COM} = 3.5V, V+ = 4.5V		T_A = +25°C			120	225	Ω
				T_A = T_{MIN} to T_{MAX}				280	
On-Resistance Matching Between Channels (Note 4)	ΔR_{ON}	I_{NO} = 1mA, V_{COM} = 3.5V, V+ = 4.5V		T_A = +25°C			2	10	Ω
				T_A = T_{MIN} to T_{MAX}				12	
On-Resistance Flatness	R_{FLAT}	I_{NO} = 1mA, V_{COM} = 3V, 2V, 1V; V+ = 5V		T_A = +25°C			5	16	Ω
				T_A = T_{MIN} to T_{MAX}				20	
NO Off-Leakage Current (Note 8)	$I_{NO(OFF)}$	V_{NO} = 4.5V, V_{COM} = 0V, V+ = 5.5V		T_A = +25°C		-0.1	0.03	0.1	nA
				T_A = T_{MIN} to T_{MAX}	C, E	-1.0		1.0	
					M	-10		10	
COM Off-Leakage Current (Note 8)	$I_{COM(OFF)}$	V_{COM} = 4.5V, V_{NO} = 0V, V+ = 5.5V	MAX396	T_A = +25°C		-0.2	0.05	0.2	nA
				T_A = T_{MIN} to T_{MAX}	C, E	-2.5		2.5	
					M	-40		40	
		V_{COM} = 4.5V, V_{NO} = 0V, V+ = 5.5V	MAX397	T_A = +25°C		-0.2	0.02	0.2	
				T_A = T_{MIN} to T_{MAX}	C, E	-2.5		2.5	
					M	-20		20	
COM On-Leakage Current (Note 6)	$I_{COM(ON)}$	V_{COM} = 4.5V, V_{NO} = 4.5V, V+ = 5.5V	MAX396	T_A = +25°C		-0.4	0.09	0.4	nA
				T_A = T_{MIN} to T_{MAX}	C, E	-5		5	
					M	-60		60	
			MAX397	T_A = +25°C		-0.2	0.04	0.2	
				T_A = T_{MIN} to T_{MAX}	C, E	-2.5		2.5	
					M	-30		30	
DIGITAL LOGIC INPUT									
Logic High Input Voltage	V_{AH}, V_{ENH}					2.4			V
Logic Low Input Voltage	V_{AL}, V_{ENL}							0.8	V
Input Current with Input Voltage High	I_{AH}, I_{ENH}	V_A = V_{EN} = 2.4V				-0.1	0.001	0.1	µA
Input Current with Input Voltage Low	I_{AL}, I_{ENL}	V_A =0V, V_{EN} = 0.8V				-0.1	0.001	0.1	µA
SUPPLY									
Power-Supply Range						2.7		15	V
Positive Supply Current	I+	V_{EN} = V_A = 0V, V+; V+ = 5.5V; V- = 0V				-1.0	0.06	1.0	µA
Negative Supply Current	I-	V_{EN} = V_A = 0V, V+; V+ = 5.5V; V- = 0V				-1.0	0.08	1.0	µA
Ground Current	I_{GND}	V_{EN} = V+, 0V; V_A = 0V; V+ = 5.5V; V- = 0V		T_A = +25°C		-1.0	0.08	1.0	µA
				T_A = T_{MIN} to T_{MAX}		-1.0		1.0	

Electrical Characteristics —Single +5V Supply (continued)

(V+ = +5V ±10%, V- = 0V, GND = 0V, V_{AH} = V_{ENH} = 2.4V, V_{AL} = V_{ENL} = 0.8V, T_A = T_{MIN} to T_{MAX}, unless otherwise noted.)

PARAMETER	SYMBOL	CONDITIONS		MIN	TYP (Note 2)	MAX	UNITS
DYNAMIC							
Transition Time (Note 3)	t_{TRANS}	V_{NO} = 3V, Figure 2	T_A = +25°C		105	245	ns
			T_A = T_{MIN} to T_{MAX}			350	
Break-Before-Make Interval	t_{OPEN}	(Note 3)	T_A = +25°C	10	65		ns
Enable Turn-On Time (Note 3)	$t_{ON(EN)}$		T_A = +25°C		125	200	ns
			T_A = T_{MIN} to T_{MAX}			275	
Enable Turn-Off Time (Note 3)	$t_{OFF(EN)}$		T_A = +25°C		100	125	ns
			T_A = T_{MIN} to T_{MAX}			200	
Charge Injection (Note 3)	V_{CTE}	C_L = 100pF, V_{NO} = 0V, Figure 5	T_A = +25°C		1.5	5	pC

Electrical Characteristics—Single +3V Supply

(V+ = +3V ±10%, V- = 0V, GND = 0V, V_{AH} = V_{ENH} = 2.4V, V_{AL} = V_{ENL} = 0.8V, T_A = T_{MIN} to T_{MAX}, unless otherwise noted.)

PARAMETER	SYMBOL	CONDITIONS		MIN	TYP (Note 2)	MAX	UNITS
SWITCH							
Analog Signal Range	V_{ANALOG}	(Note 3)		V-		V+	V
On-Resistance	R_{ON}	I_{NO} = 1mA, V_{COM} = 1.5V, V+ = 3V	T_A = +25°C		315	550	Ω
			T_A = T_{MIN} to T_{MAX}			650	
DYNAMIC							
Transition Time (Note 3)	t_{TRANS}	Figure 2, V_{IN} = 2.4V, V_{N01} = 1.5V, V_{N08} = 0V	T_A = +25°C		230	575	ns
			T_A = T_{MIN} to T_{MAX}			750	
Enable Turn-On Time (Note 3)	$t_{ON(EN)}$	Figure 3, V_{INH} = 2.4V, V_{INL} = 0V, V_{N01} = 1.5V	T_A = +25°C		260	500	ns
Enable Turn-Off Time (Note 3)	$t_{OFF(EN)}$	Figure 3, V_{INH} = 2.4V, V_{INL} = 0V, V_{N01} = 1.5V	T_A = +25°C		135	400	ns
Charge Injection (Note 3)	V_{CTE}	C_L = 100pF, V_{NO} = 0V, Figure 5	T_A = +25°C		1	5	pC

Note 2: The algebraic convention, where the most negative value is a minimum and the most positive value a maximum, is used in this data sheet.

Note 3: Guaranteed by design.

Note 4: ΔR_{ON} = $R_{ON(MAX)}$ - $R_{ON(MIN)}$.

Note 5: Flatness is defined as the difference between the maximum and minimum value of on-resistance as measured over the specified analog signal ranges, i.e., V_{NO} = 3V to 0V and 0V to -3V.

Note 6: Leakage parameters are 100% tested at maximum rated hot operating temperature, and guaranteed by correlation at +25°C.

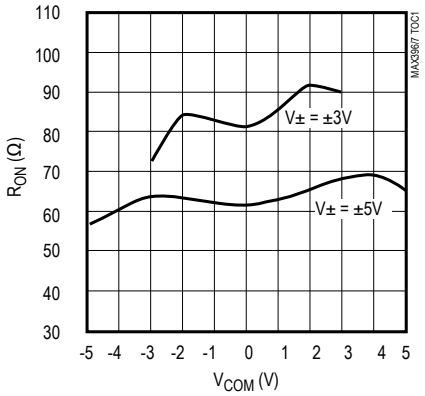
Note 7: Worst-case isolation is on channel 4 because of its proximity to the COM pin. Off-isolation = 20log V_{COM}/V_{NO}, V_{COM} = output, V_{NO} = input to off switch.

Note 8: Leakage testing at single supply is guaranteed by correlation testing with dual supplies.

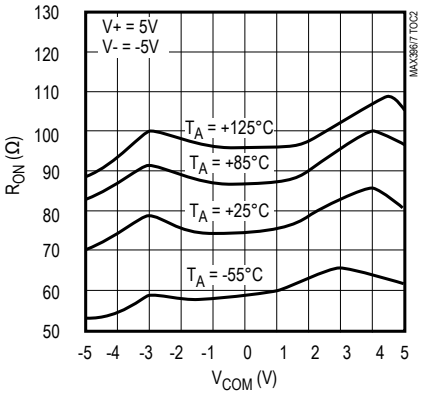
Typical Operating Characteristics

(T_A = +25°C, unless otherwise noted.)

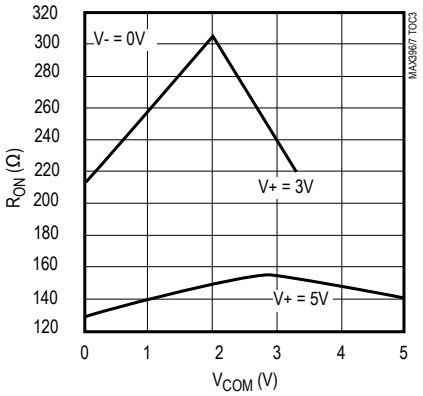
ON-RESISTANCE vs. V_{COM} (DUAL SUPPLIES)



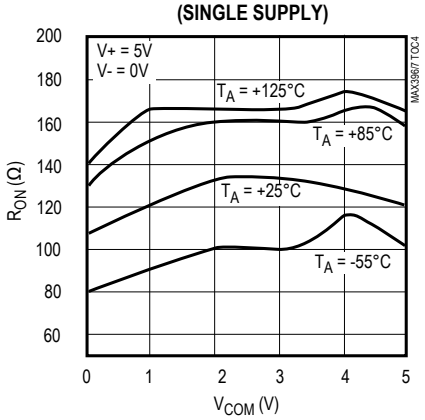
ON-RESISTANCE vs. V_{COM} AND TEMPERATURE (DUAL SUPPLIES)



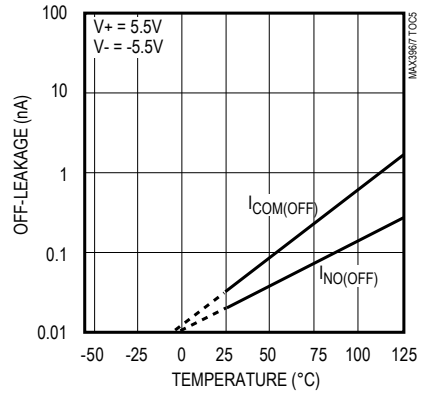
ON-RESISTANCE vs. V_{COM} (SINGLE SUPPLY)



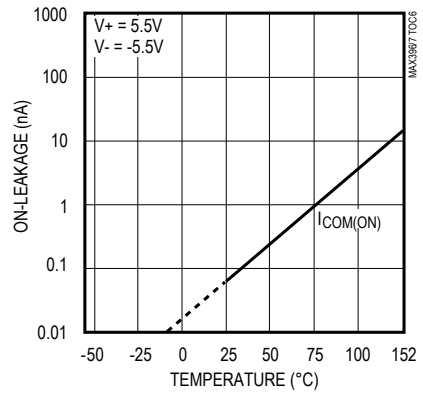
ON-RESISTANCE vs. V_{COM} AND TEMPERATURE (SINGLE SUPPLY)



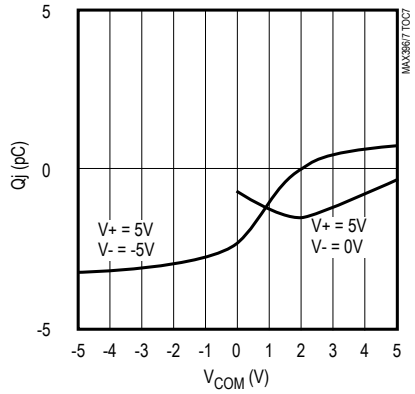
OFF-LEAKAGE vs. TEMPERATURE



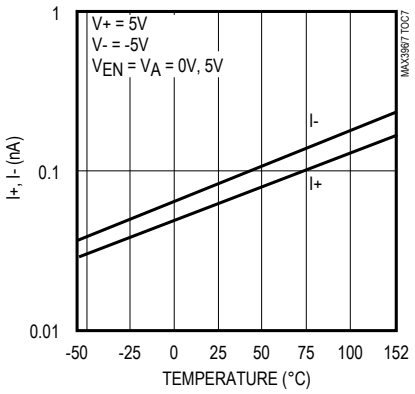
ON-LEAKAGE vs. TEMPERATURE



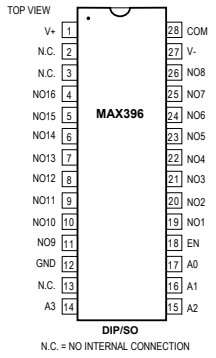
CHARGE INJECTION vs. V_{COM}

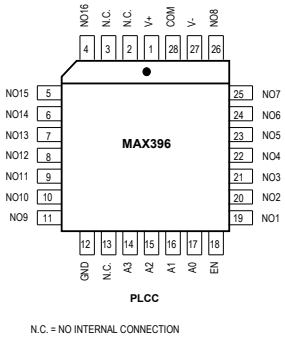


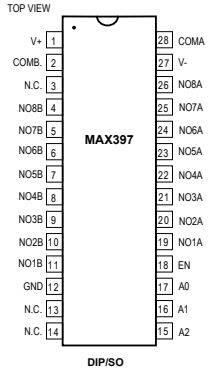
SUPPLY CURRENT vs. TEMPERATURE

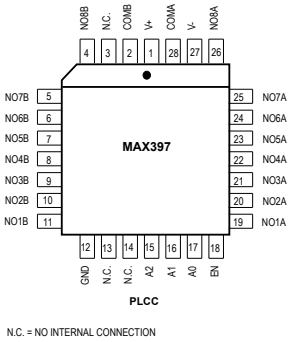


Pin Configurations









Pin Description

PIN		NAME	FUNCTION
MAX396	MAX397		
1	1	V+	Positive Supply-Voltage Input
2, 3, 13	—	N.C.	No Internal Connection
—	2	COMB	Analog Signal B Output* (bidirectional)
—	3, 13, 14	N.C.	No Internal Connection
4–11	—	NO16–NO9	Analog Signal Inputs* (bidirectional)
—	4–11	NO8B–NO1B	Analog Signal B Inputs* (bidirectional)
12	12	GND	Logic Ground
14–17	—	A3–A0	Logic Address Inputs
—	15, 16, 17	A2, A1, A0	Logic Address Inputs
18	18	EN	Logic Enable Input
19–26	—	NO1–NO8	Analog Signal Inputs* (bidirectional)
—	19–26	NO1A–NO8A	Analog Signal A Inputs* (bidirectional)
27	27	V-	Negative Supply-Voltage Input
28	—	COM	Analog Signal Output* (bidirectional)
—	28	COMA	Analog Signal A Output* (bidirectional)

**Analog signal inputs and outputs are names of convenience only; they are identical and interchangeable.*

Applications Information

Operation with Supply Voltages Other than ±5V

Using supply voltages less than ±5V reduces the analog signal range. The MAX396/MAX397 multiplexers (muxes) operate with ±3V to ±8V bipolar supplies or with a +3V to +15V single supply. Connect V- to GND when operating with a single supply. Both devices can also operate with unbalanced supplies, such as +10V and -5V. The *Typical Operating Characteristics* graphs show typical on-resistance with ±3V, ±5V, +3V, and +5V supplies.

These muxes operate with a single supply as low as 1V, although on-resistance and switching times become extremely high. Performance is not guaranteed below 2.7V. This is useful information only because it assures proper switch state while power supplies ramp up or down slowly.

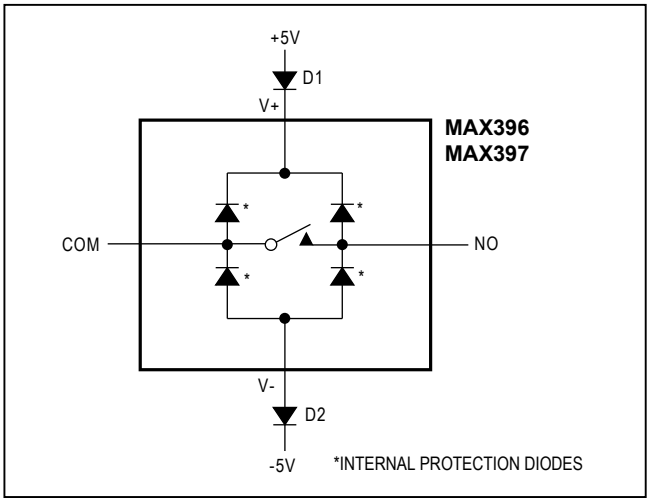


Figure 1. Overvoltage Protection Using External Blocking Diodes

Overvoltage Protection

Proper power-supply sequencing is recommended for all CMOS devices. Do not exceed the absolute maximum ratings, because stresses beyond the listed ratings can cause permanent damage to the devices. Always sequence V+ on first, then V-, followed by the logic inputs, NO, or COM. If power-supply sequencing is not possible, add two small-signal diodes (D1, D2) in series with supply pins for overvoltage protection (Figure 1). Adding diodes reduces the analog-signal range to one diode drop below V+ and one diode drop above V-, but does not affect the devices' low switch resistance and low leakage characteristics. Device operation is unchanged, and the difference between V+ and V- should not exceed 17V. These protection diodes are not recommended when using a single supply.

Test Circuits/Timing Diagrams

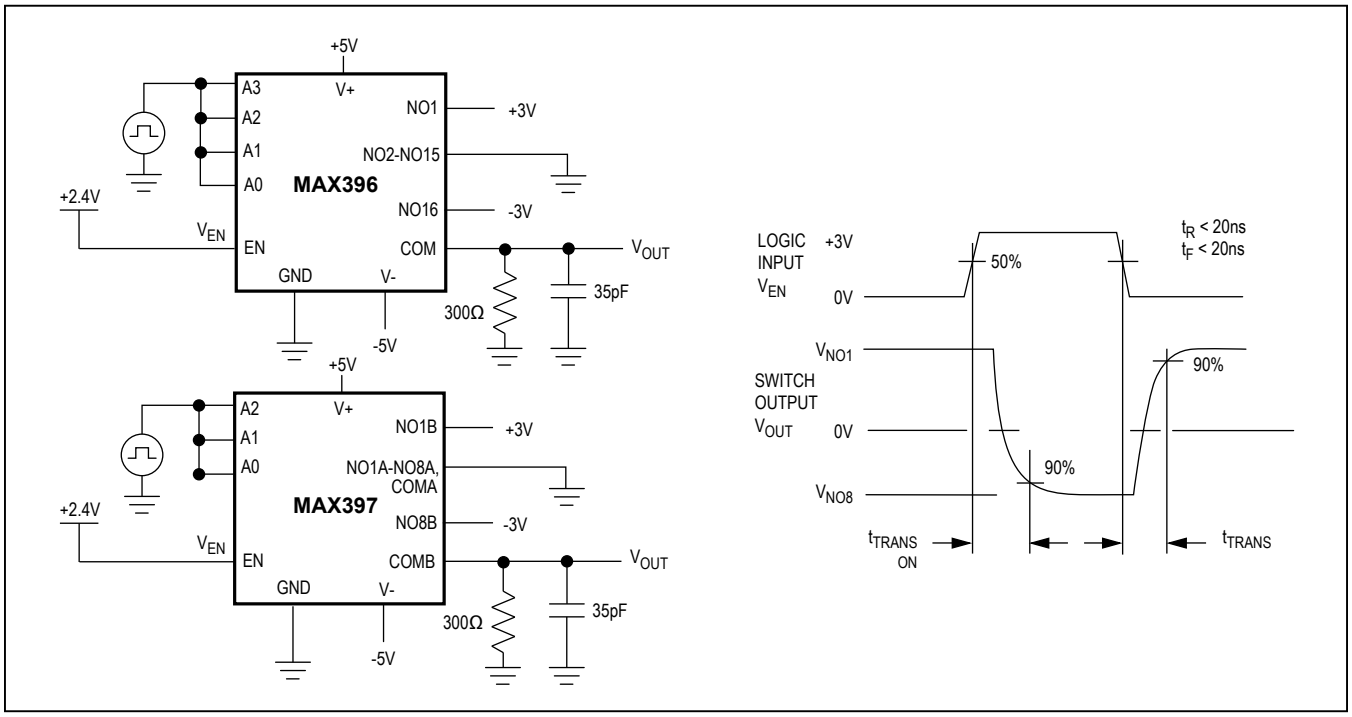


Figure 2. Transition Time

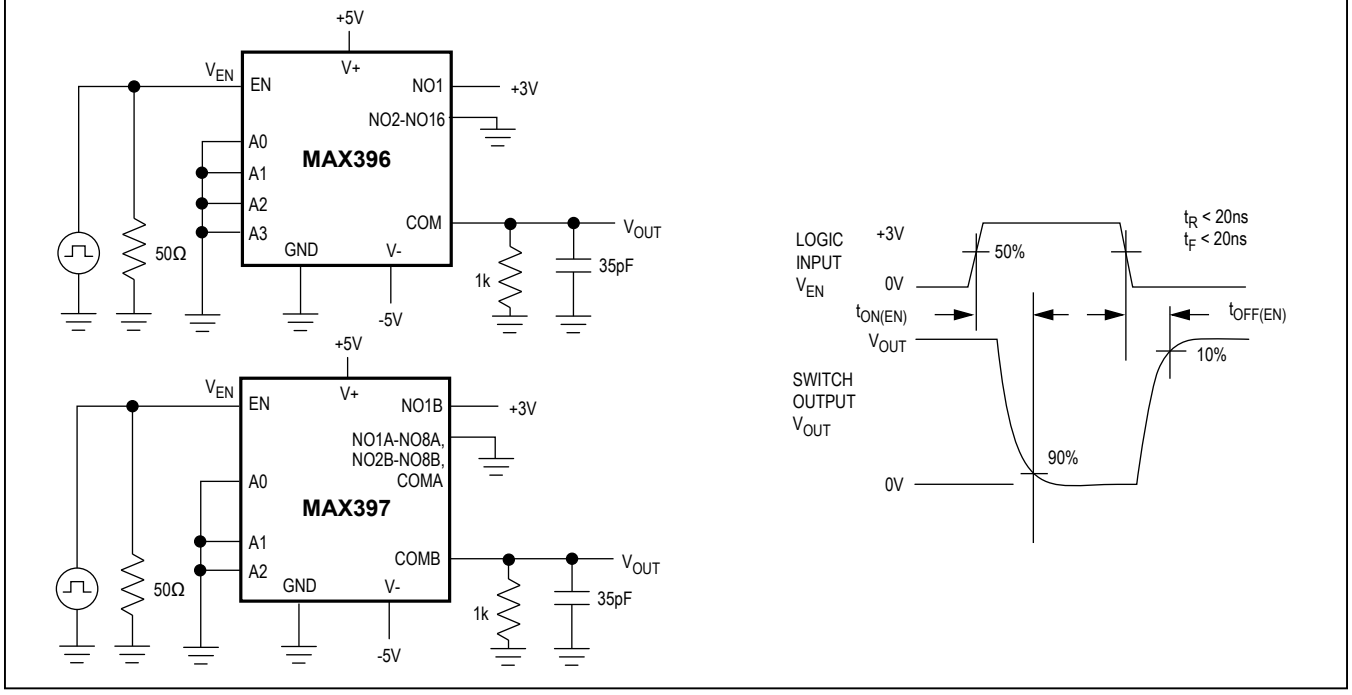


Figure 3. Enable Switching Time

Test Circuits/Timing Diagrams (continued)

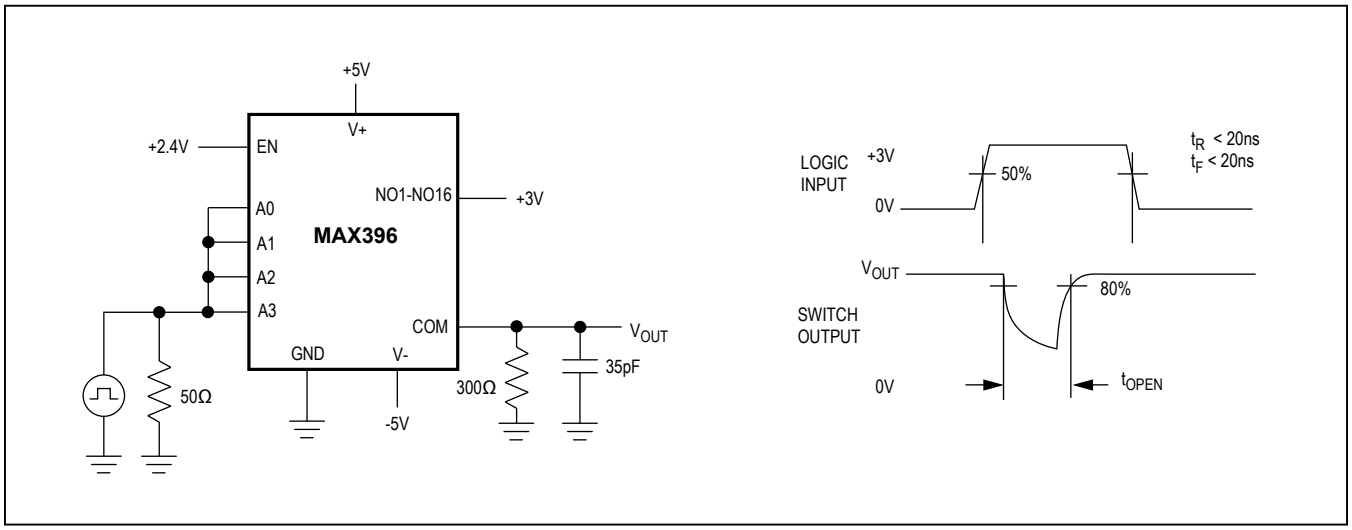


Figure 4. Break-Before-Make Interval

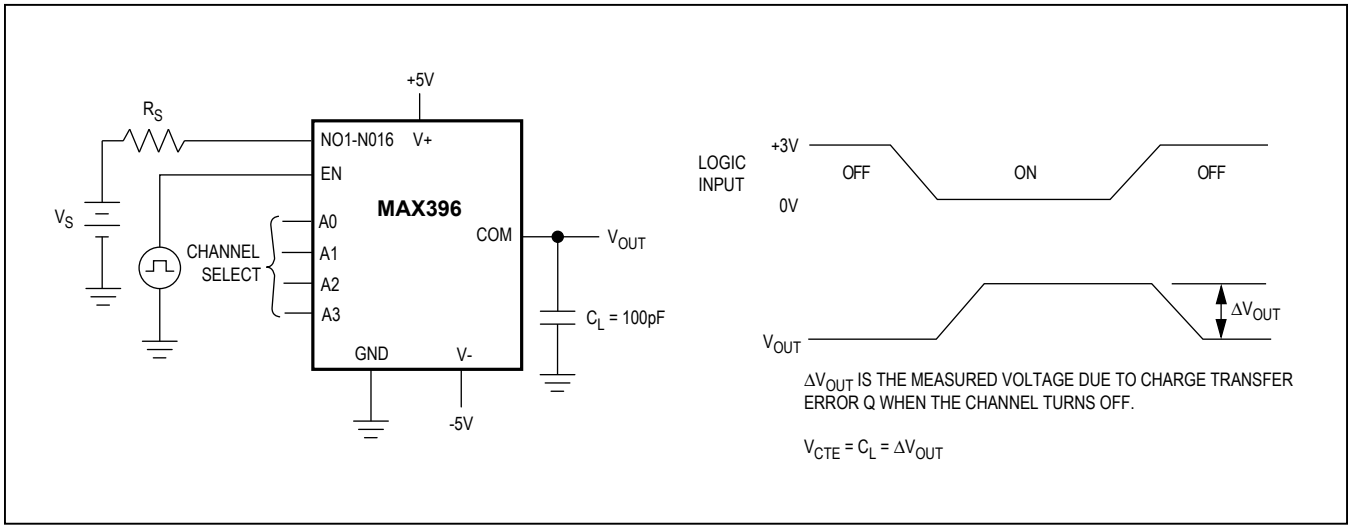


Figure 5. Charge Injection (V_{CTE})

Test Circuits/Timing Diagrams (continued)

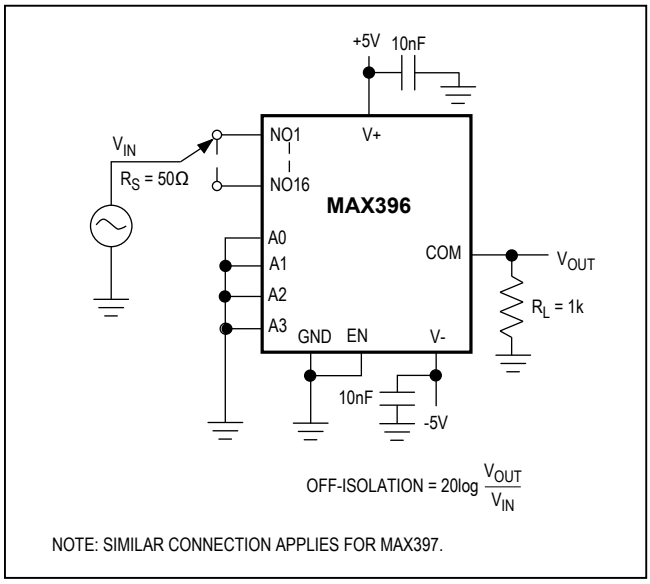


Figure 6. Off-Isolation (V_{ISO})

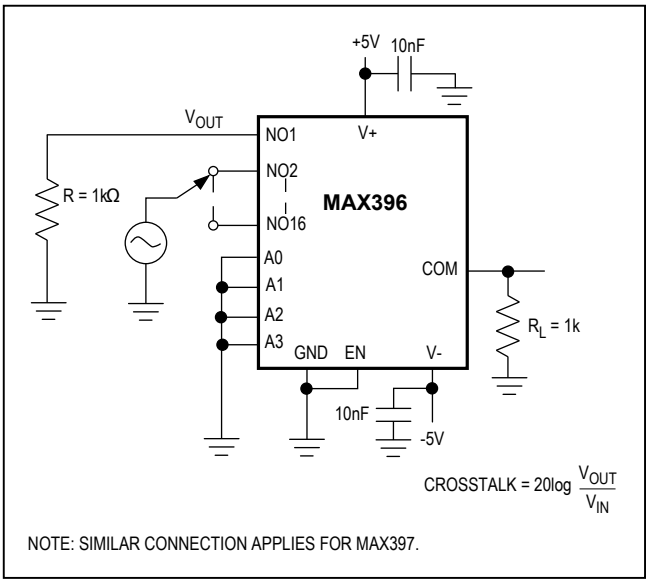


Figure 7. Crosstalk (V_{CT})

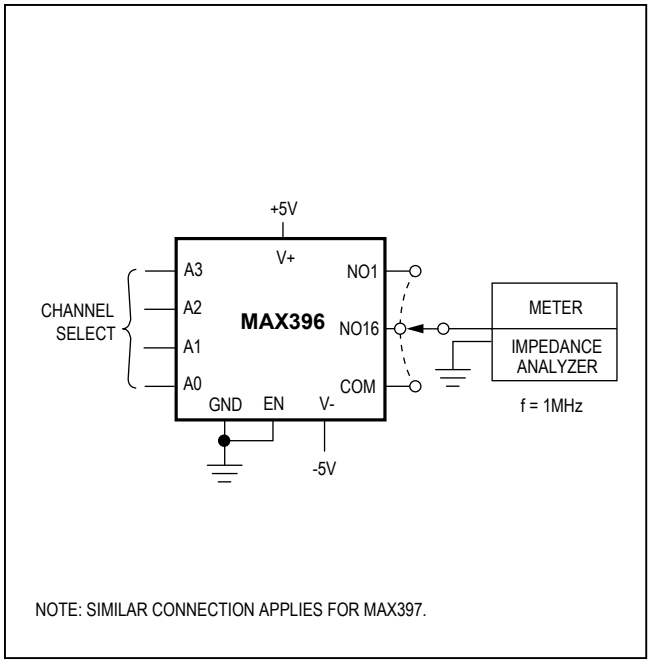
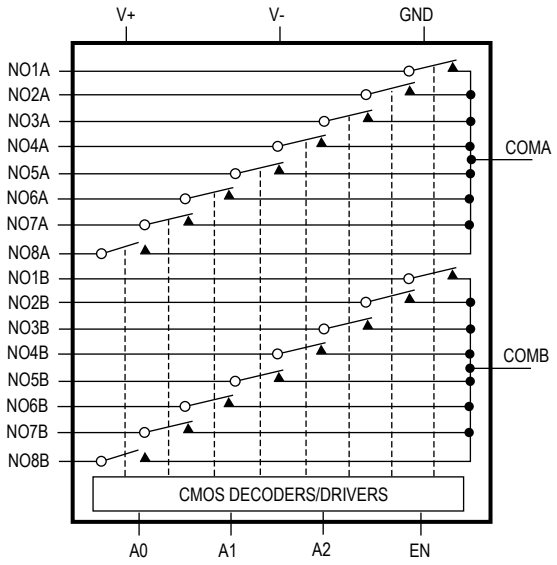


Figure 8. NO/COM Capacitance

Functional Diagrams/Truth Tables (continued)

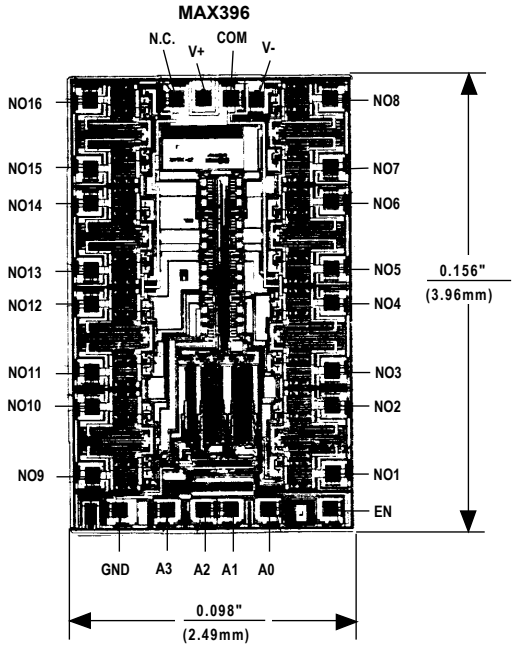


MAX397 8-CHANNEL DIFFERENTIAL MULTIPLEXER

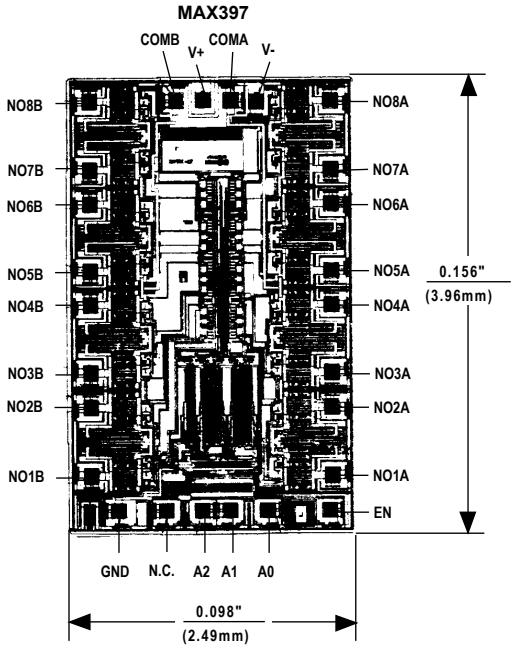
MAX397				
A2	A1	A0	EN	ON SWITCH
X	X	X	0	NONE
0	0	0	1	1
0	0	1	1	2
0	1	0	1	3
0	1	1	1	4
1	0	0	1	5
1	0	1	1	6
1	1	0	1	7
1	1	1	1	8

LOGIC "0" = $V_{AL} \leq 0.8V$, LOGIC "1" = $V_{AH} \geq 2.4V$

Chip Topographies



TRANSISTOR COUNT: 360
SUBSTRATE CONNECTED TO V+



TRANSISTOR COUNT: 360
SUBSTRATE CONNECTED TO V+

Ordering Information

PART	TEMP. RANGE	PIN-PACKAGE
MAX396CPI	0°C to +70°C	28 Plastic DIP
MAX396CWI	0°C to +70°C	28 Wide SO
MAX396CAI	0°C to +70°C	28 SSOP
MAX396CQI	0°C to +70°C	28 PLCC**
MAX396C/D	0°C to +70°C	Dice*
MAX396EPI	-40°C to +85°C	28 Plastic DIP
MAX396EWI	-40°C to +85°C	28 Wide SO
MAX396EQI	-40°C to +85°C	28 PLCC**
MAX396MJI	-55°C to +125°C	28 CERDIP**
MAX397CPI	0°C to +70°C	28 Plastic DIP
MAX397CWI	0°C to +70°C	28 Wide SO
MAX397CAI	0°C to +70°C	28 SSOP
MAX397CQI	0°C to +70°C	28 PLCC**
MAX397C/D	0°C to +70°C	Dice*
MAX397EPI	-40°C to +85°C	28 Plastic DIP
MAX397EWI	-40°C to +85°C	28 Wide SO
MAX397EQI	-40°C to +85°C	28 PLCC**
MAX397MJI	-55°C to +125°C	28 CERDIP**

**Contact factory for dice specifications.*
***Contact factory for package availability.*

Revision History

REVISION NUMBER	REVISION DATE	DESCRIPTION	PAGES CHANGED
2	1/16	Fixed typos, updated template	1–14

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