General Description

The MAX5900/MAX5901 are SOT23/TDFN hot-swap controllers that allow a circuit card to be safely hot-plugged into a live backplane without causing a glitch on the power-supply rail. These devices operate from -9V to -100V and provide the simplest hot-swap solution by eliminating all external components except an external n-channel MOSFET.

The MAX5900/MAX5901 limit the inrush current to the load and provide a circuit-breaker function for overcurrent protection. During startup, the circuit-breaker function is disabled and the MAX5900/MAX5901 limit the inrush current by gradually turning on the external MOSFET. Once the external MOSFET is fully enhanced, the circuit-breaker function is enabled and the MAX5900/MAX5901 provide overcurrent protection by monitoring the voltage drop across the external MOSFET's on-resistance.

The MAX5900/MAX5901 include an undervoltage lockout (UVLO) function, ON/OFF control input, and a powergood status output, PGOOD (MAX5900) or PGOOD (MAX5901). A built-in thermal shutdown feature is also included to protect the external MOSFET in case of overheating.

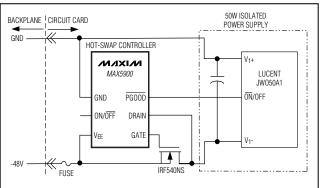
The MAX5900/MAX5901 offer latched or autoretry fault management and are available with 200mV, 300mV, or 400mV circuit-breaker thresholds. Both the MAX5900 and MAX5901 are available in small SOT23 and TDFN packages, and are specified for the extended -40°C to +85°C temperature range. For specific ordering information see the Selector Guide at the end of the data sheet.

Applications

Telecom Line Cards Network Routers Base-Station Line Cards

Network Switches Servers

Typical Operating Circuits



Maxim Integrated Products 1

Features

- Wide -9V to -100V Operation
- Requires No External Sense Resistor
- Drives External N-Channel MOSFET
- Limits Inrush Current
- Circuit-Breaker Function
- Less than 1mA Quiescent Current
- ON/OFF Input Permits Load Power-Supply Control and Sequencing
- Adjustable Undervoltage Lockout
- Power-Good Output with 100V Rating
- Latching or Automatic Retry Fault Management
- **Thermal Shutdown Helps Protect the External** ٠ MOSFET
- Space-Saving 6-Pin SOT23 and TDFN Packages

Ordering Information

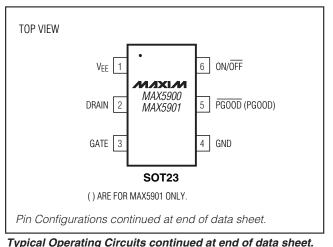
PART	TEMP RANGE	PIN- PACKAGE	PKG CODE
MAX5900EUT+T*	-40°C to +85°C	6 SOT23-6	U6F-6
MAX5900ETT+T*	-40°C to +85°C	6 TDFN-EP**	T633-2
MAX5901EUT+T*	-40°C to +85°C	6 SOT23-6	U6F-6
MAX5901ETT+T*	-40°C to +85°C	6 TDFN-EP**	T633-2

*For specific part numbers, see Selector Guide at end of data sheet

+Denotes lead-free package.

**EP = Exposed pad.

Pin Configurations



Simple Swapper is a trademark of Maxim Integrated Products, Inc.

For pricing, delivery, and ordering information, please contact Maxim/Dallas Direct! at 1-888-629-4642, or visit Maxim's website at www.maxim-ic.com.

ABSOLUTE MAXIMUM RATINGS

Terminal Voltage (with respect to GND, unless otherwise noted) VEE_DRAIN, PGOOD, PGOOD-120V to +0.3V ON/OFF to VEE-0.3V to +4V GATE to VEE-0.3V to +12V Current into Any Pin......±3mA Continuous Power Dissipation ($T_A = +70^{\circ}C$)

6-Pin SOT23 (derate 9.1mW/°C above +70°C).	727mW
6-Pin TDFN (derate 18.2mW/°C above +70°C)	1454mW
Junction to Case Thermal Resistance, θ_{JC} (TDFN))8.5°C/W
Maximum Junction Temperature	+150°C
Storage Temperature Range60	0°C to +150°C
Lead Temperature (soldering, 10s)	+300°C

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

(V_{EE} = -9V to -100V, GND = 0V, ON/ \overline{OFF} open circuit, T_A = -40°C to +85°C, unless otherwise noted. Typical values are at V_{EE} = -48V and T_A = +25°C.) (Notes 1, 2)

PARAMETER	SYMBOL	CONDITIONS		MIN	ТҮР	МАХ	UNITS	
Supply Voltage	VEE			-100		-9	V	
Supply Current	Ignd	Measured at GND			0.5	1.3	mA	
			$V_{EE} = -36V \text{ to } -72V$	7.5	9.5	11.6		
External Gate Drive	VGS	V _{GATE} - V _{EE}	V _{EE} = -100V	8	10	11.6	V	
			$V_{EE} = -9V$	6	7			
Load Voltage Slew-Rate Magnitude	SR	l dV _{DRAIN} /dt l, C _{LOAD} =	4.5	10	17	V/ms		
Default UVLO	Vuvlo	IV _{EE} I increasing		-34.5	-31.5	-28.5	V	
UVLO Hysteresis					3.5		V	
ON/OFF Input Resistance	RON/OFF		20	32	50	kΩ		
Drain to VEE Resistance	RDVEE			466		kΩ		
ON/OFF Reference Threshold	V _{ON/OFF}	(V _{ON/OFF} - V _{EE}) increasi	ng	1.14	1.26	1.38	V	
ON/OFF Hysteresis					140		mV	
Start Delay (Note 3)	ton			150	300	500	ms	
ON/OFF Off Delay (Note 4)	toff	$V_{GATE} - V_{EE} < 1V$		9	20	32	ms	
			MAX590AEUT	170	200	240		
Circuit-Breaker Threshold	VCB	V _{DRAIN} - V _{EE}	MAX590BEUT	265	300	345	mV	
			MAX590CEUT	365	400	455		
		$(V_{DRAIN} - V_{EE}) > V_{CB}$	C _{GATE} = 1nF		1.5	3	-	
Circuit-Breaker Delay (Note 5)	tсв	until (V _{GATE} - V _{EE}) < 1V, 200mV overdrive	C _{GATE} = 4.7nF		2.5	4.5		
		step	C _{GATE} = 10nF		4	6		
Restart Delay (Note 3)	tRS	After circuit-breaker eve	nt, MAX590_A_EUT only	150	300	500	ms	

ELECTRICAL CHARACTERISTICS (continued)

(VEE = -9V to -100V, GND = 0V, ON/OFF open circuit, T_A = -40°C to +85°C, unless otherwise noted. Typical values are at V_{EE} = -48V and $T_A = +25^{\circ}C$.) (Notes 1, 2)

PARAMETER	SYMBOL	CONDITIONS	MIN T	ΥP	MAX	UNITS
PGOOD (PGOOD) Assertion Threshold (Note 6)	V _{PG}	V _{DRAIN} - V _{EE} ; MAX590_A, MAX590_L only	0.75	× V _{CB}		mV
PGOOD (PGOOD) Output Low Voltage	V _{OL}	MAX5900, V_{PGOOD} - V_{EE} , I_{OL} = 1mA; MAX5901, V_{PGOOD} - V_{EE} , I_{OL} = 1mA	().6	1.65	V
Power-Good Output Open- Drain Leakage Current	ЮН	V PGOOD - V _{EE} = 100V (MAX5900); VPGOOD - V _{EE} = 100V (MAX5901)	().2	10	μA
Thermal Shutdown Temperature	T _{SD}	Junction temperature	+	125		°C
Thermal Shutdown Hysteresis	T _{HY}			15		°C

Note 1: All currents into device pins are positive, all currents out of device pins are negative, and all voltages are referenced to GND, unless otherwise noted.

Note 2: All specifications are 100% tested at T_A = +25°C. Specifications over -40°C to +85°C are guaranteed by characterization. Note 3: This is the delay time from a valid on condition until V_{GS} begins rising. Valid on conditions are: the device is not in undervoltage lockout; ON/OFF is not driven low; and the device is not in thermal shutdown.

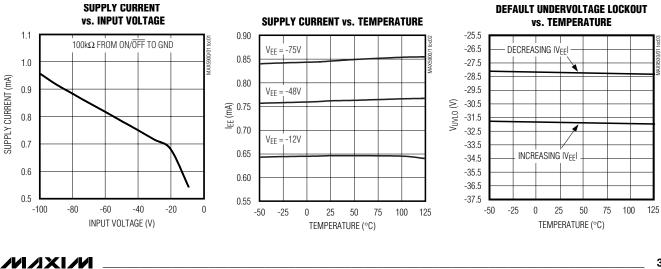
Note 4: This is the delay from a valid low on ON/OFF until VGS falls. Pulses on ON/OFF less than tOFF are ignored, offering glitch immunity.

Note 5: Guaranteed by design, not production tested.

Note 6: For a detailed description, see the Power-Good Output section.

Typical Operating Characteristics

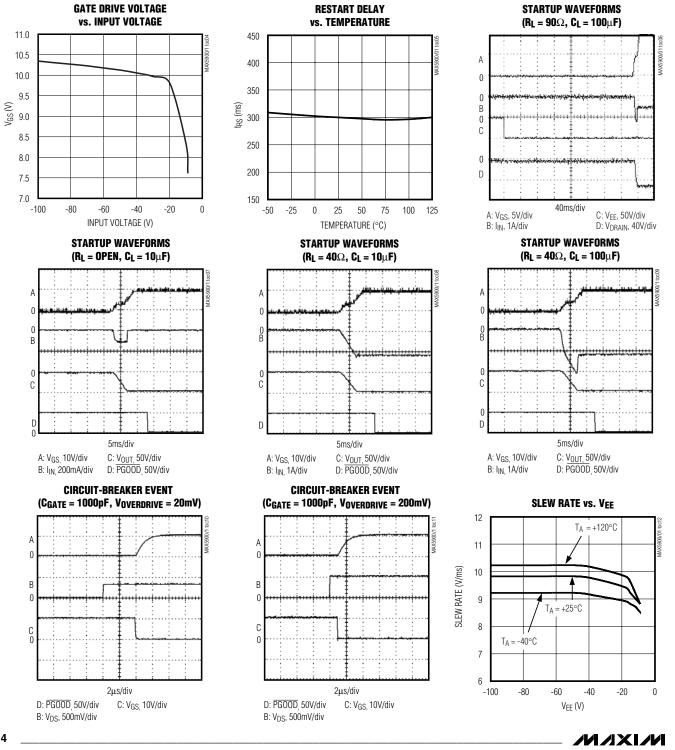
(VEE = -48V, GND = 0V, and $T_A = +25^{\circ}$ C, unless otherwise noted. See Figure 6 for test circuits.)



Typical Operating Characteristics (continued)

(V_{EE} = -48V, GND = 0V, and T_A = +25°C, unless otherwise noted. See Figure 6 for test circuits.)

MAX5900/MAX590



Pin Description

P	IN		E INICEION
MAX5900	MAX5901	NAME	FUNCTION
1	1	V _{EE}	Negative Supply Voltage Input and External n-Channel MOSFET Source Connection
2	2	DRAIN	Drain Sense Input for External n-Channel MOSFET. Connect DRAIN as close as possible to the MOSFET's drain and use wide circuit traces to assure good thermal coupling between the MAX5900/MAX5901 and the MOSFET (see the <i>Layout Guidelines</i> section).
3	3	GATE	Gate Drive Output for External n-Channel MOSFET
4	4	GND	Ground Connection.
5	_	PGOOD	Power-Good Output. $\overline{\text{PGOOD}}$ is an n-channel, open-drain, active-low output, referenced to $V_{\text{EE}}.$
_	5	PGOOD	Power-Good Output. PGOOD is an n-channel, open-drain, active-high output, referenced to $V_{\mbox{\scriptsize E}}.$
6	6	ON/OFF	ON/OFF Control Input. ON/OFF is referenced to V _{EE} . Drive ON/OFF above 1.38V or leave unconnected to enable the device. Drive ON/OFF below 1V to disable the device. ON/OFF is also used to adjust the UVLO threshold. See the <i>Under-voltage Lockout</i> section in the <i>Applications Information</i> . Internally clamped to nominally 3V through a 1k Ω resistor (see Figure 1).
_	—	EP	Exposed Pad (TDFN only). Connect to VEE.

Detailed Description

The MAX5900/MAX5901 are integrated hot-swap controller ICs contained in 6-pin SOT23/TDFN packages. They allow a board to be safely hot plugged into a live backplane without causing a glitch on the power-supply rail. They are well suited for -48V telecom power systems, allowing a cost-effective, simple, and compact design. The MAX5900/MAX5901 operate from -9V to -100V to cover the standard telecom voltage range, and to serve more generalized applications. These devices require only an external n-channel power MOS-FET to provide hot-swap control. Figure 1 shows a functional diagram of the MAX5900/MAX5901.

The MAX5900/MAX5901 control an external n-channel power MOSFET placed in the negative power-supply pathway. When power is first applied, the MAX5900/MAX5901 keep the MOSFET turned off. The MAX5900/MAX5901 hold the MOSFET off indefinitely if ON/OFF is held low, if the supply voltage is below the undervoltage lockout level, or if the die temperature exceeds +125°C. If none of these conditions exist for 300ms (typ), the MAX5900/MAX5901 begin to gradually turn on the MOSFET. During this turn-on phase, the MAX5900/MAX5901 slowly enhance the MOSFET,

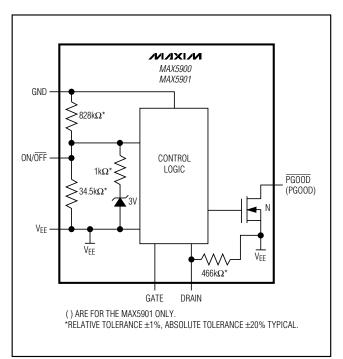


Figure 1. Functional Diagram



5

allowing the voltage on the load, i.e. the drain of the MOSFET, to fall no faster than 10V/ms (typ). The inrush current to the load is thus limited to a level proportional to the load capacitance, and the constant load voltage slew rate. After the MOSFET is fully enhanced, and the load voltage is settled to its final value, the MAX5900A/ MAX5901A and MAX5900L/MAX5901L monitor the voltage drop from the MOSFET's drain-to-source (VDS). If the voltage drop exceeds 75% of the circuit-breaker threshold the MAX5900A/MAX5901A or MAX5900L/ MAX5901L turn off the MOSFET, disconnecting the load immediately. Because the circuit-breaker function is not activated until the MOSFET is fully enhanced, it takes approximately 10ms for the MAX5900A/ MAX5901A or MAX5900L/MAX5901L to react to an output short circuit at startup. If no circuit-breaker fault exists, the power-good output is asserted. Then, if any of four conditions exist, the power-good output deasserts and the MOSFET is turned off . The four conditions are: the voltage across the MOSFET exceeds the circuit-breaker threshold; the supply voltage magnitude falls below the undervoltage lockout level; the die temperature exceeds +125°C; or ON/OFF is forced low. After a circuit-breaker fault, the MAX5900L/MAX5901L keep the MOSFET off until the power is cycled, or the part is reset by toggling ON/OFF low for at least 20ms (typ). After a circuit-breaker fault, the MAX5900A/ MAX5901A automatically restart in 300ms (typ). All versions automatically restart after a thermal fault, or an undervoltage shutdown, if the fault condition goes away for at least 300ms (typ).

ON/OFF offers external control of the MAX5900/ MAX5901, facilitating power-supply sequencing, and may also be used to change the UVLO level. UVLO keeps the external MOSFET switched off as long as the magnitude of the input voltage is less than a desired level.

A power-good output, \overrightarrow{PGOOD} (MAX5900) or \overrightarrow{PGOOD} (MAX5901), asserts when the external MOSFET is fully enhanced and the drain-source voltage is at least 25% below the circuit-breaker threshold. \overrightarrow{PGOOD} and \overrightarrow{PGOOD} are open-drain outputs referenced to V_{EE}, and can withstand up to 100V above V_{EE}.

A thermal shutdown feature protects the external MOS-FET by turning it off if the die temperature of the MAX5900/MAX5901 exceeds +125°C. The MAX5900/ MAX5901 must be in good thermal contact with the external MOSFET. See the *Layout Guidelines* section in the *Applications Information*.

A circuit-breaker function monitors the voltage across the external MOSFET, V_{DS} , and turns off the MOSFET if V_{DS} exceeds the circuit-breaker threshold, V_{CB} . The

circuit-breaker function is enabled after the MOSFET is fully enhanced. Three threshold voltage options are available—200mV, 300mV, and 400mV. One version is available with no circuit-breaker function. circuit-breaker fault management for the MAX5900/MAX5901 is offered with two different configurations—latched and automatic retry.

Latched Circuit Breaker

After a circuit-breaker trip event, the latched versions (MAX5900L/MAX5901L) drive GATE to VEE, turning off the external MOSFET, and \overrightarrow{PGOOD} (PGOOD) is deasserted. A latched-off condition needs to be reset by toggling ON/OFF low for at least 20ms, or by cycling the power supply, VEE.

Automatic Retry Circuit Breaker

After a circuit-breaker trip event, the automatic retry versions (MAX5900A/MAX5901A) drive GATE to VEE, turning off the external MOSFET, and PGOOD (PGOOD) is deasserted. If the start conditions are met for a full 300ms (tRS) the start sequence is initiated. The start conditions are: the device is not in UVLO; ON/OFF is not driven low; and the device is not in thermal shutdown.

No Circuit Breaker

For the versions without a circuit-breaker MAX5900N (MAX5901N), PGOOD (PGOOD) is asserted when the MOSFET is fully enhanced. Once powered up, the MAX5900N/MAX5901N ignore the MOSFET drain-to-source voltage (V_{DS}) for applications where a circuit-breaker function is not desired.

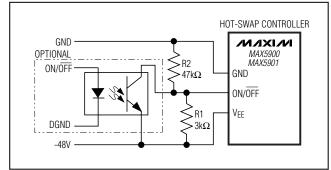
Applications Information

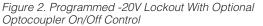
ON/**OFF** Control Input

The ON/OFF control input provides three hot-swap functions: external ON/OFF control; setting of the UVLO level; and resetting after a circuit-breaker event has caused the MAX5900L/MAX5901L to turn off the external MOSFET. Pulling ON/OFF to V_{EE} for at least 20ms (tOFF) forces the MAX5900/MAX5901 to turn off the external MOSFET (see Figure 2 for a circuit example). To reset the MAX5900L/MAX5901L after a circuit-breaker event, toggle ON/OFF to V_{EE} for at least 20ms (tOFF).

ON/ $\overline{\text{OFF}}$ can be used to sequence power supplies. Connecting a capacitor from ON/ $\overline{\text{OFF}}$ to VEE will delay the rise of ON/ $\overline{\text{OFF}}$ proportional to the capacitance and input impedance of ON/ $\overline{\text{OFF}}$, typically 32k Ω (Figure 3).







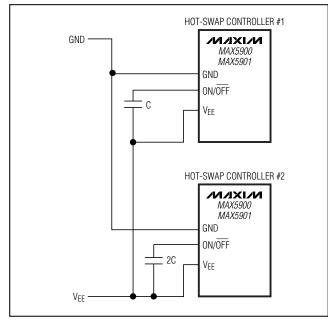


Figure 3. Power-Supply Sequencing

Turn-On and Turn-Off Delays

After power is applied, or ON/\overline{OFF} is released, there is a 300ms delay (t_{ON}) before the gate ramp is started. This delay is also the automatic restart time delay.

In the event of a circuit-breaker condition or an overtemperature fault condition, the turn-off delay is less than 2µs. An undervoltage condition must exist for at least 20ms (tOFF) before the MAX5900/MAX5901 turn off the external MOSFET. ON/OFF must be held low for at least 20ms (tOFF) before the MAX5900/MAX5901 turn off the external MOSFET. Turn-off delay minimizes spurious shutdowns due to noisy signals or momentary voltage spikes, as well as preventing accidental resetting of the circuit-breaker latch (MAX5900L/MAX5901L).

Thermal Shutdown

A thermal shutdown feature helps protect the external MOSFET. If the die temperature of the MAX5900/ MAX5901 exceeds +125°C, the MOSFET is turned off. For accurate performance, the MAX5900/MAX5901 must be in close thermal contact with the external MOSFET (see the *Layout Guidelines* section). Due to the low power dissipation of the MAX5900/MAX5901, its junction temperature will typically be within a few degrees of the MOSFET. All versions of the MAX5900/ MAX5901 automatically restart from a temperature fault when the junction temperature drops below +110°C.

Undervoltage Lockout

The MAX5900/MAX5901 turn off the external MOSFET if the magnitude of the input voltage is below the level set by ON/OFF for longer than 20ms (t_{OFF}). If ON/OFF is left unconnected, the lockout voltage (V_{UVLO}) defaults to -31.5V. V_{UVLO} may also be set to any value within the power-supply range by using external resistors. To set the lockout voltage to a value between -9V and -100V, use a resistor-divider connected between GND and V_{EE}, with the center node of the divider connected to ON/OFF. For example, use a 3k Ω resistor (R1 in Figure 2) from ON/OFF to VEE and calculate the other resistor, R2, using:

$$R2 = R1 \times \left(\frac{V_{UVLO}}{1.26} - 1\right)$$

where V_{UVLO} is the desired lockout voltage, and $V_{ON/OFF}$ is the ON/OFF reference threshold specified in the *Electrical Characteristics* table (typically 1.26V).

Figure 2 shows an example circuit with VUVLO set for -20V. To defeat the UVLO, simply connect a single 100k Ω resistor between ON/OFF and GND, as shown in Figure 4.

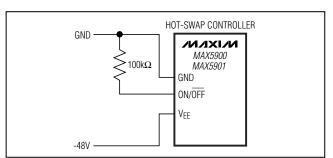


Figure 4. Defeating Undervoltage Lockout





Power-Good Output

The power-good output, PGOOD (PGOOD), is opendrain and asserts when the external MOSFET is fully enhanced and V_{DS} is less than V_{PG} (75% of the circuitbreaker threshold, V_{CB}). For versions without the circuitbreaker function (MAX5900N/MAX5901N), PGOOD (PGOOD) asserts when the external MOSFET is fully enhanced.

 \overrightarrow{PGOOD} (PGOOD) deasserts within 2µs when a circuitbreaker event occurs or if the die temperature exceeds +125°C. \overrightarrow{PGOOD} (PGOOD) deasserts if IV_{EEI} < IV_{UVLOI} for longer than 20ms or ON/ \overrightarrow{OFF} is held low for longer than 20ms.

The MAX5900 $\overline{\text{PGOOD}}$ is active-low and the MAX5901 PGOOD is active-high. Both are open-drain N-channel MOSFETs with their sources connected to V_{EE}, and can withstand up to 100V.

Selecting a Circuit-Breaker Threshold

The MAX5900A/MAX5901A and the MAX5900L/ MAX5901L offer a circuit-breaker function to protect the external MOSFET and the load from the potentially damaging effects of excessive current. As load current flows through the external MOSFET, a voltage, V_{DS}, is generated from drain to source due to the MOSFET's on-resistance R_{DS(ON)}. The MAX5900A/MAX5901A and MAX5900L/MAX5901L monitor V_{DS} when the external MOSFET is fully enhanced. If V_{DS} exceeds the circuitbreaker threshold, the external MOSFET is turned off and PGOOD (PGOOD) is deasserted.

To accommodate different MOSFETs and different load currents, the MAX5900/MAX5901 are available with circuit-breaker threshold voltages of 200mV, 300mV, and 400mV.

The circuit-breaker function is intended to disconnect the load if a gross overcurrent or short-circuit condition occurs. For calculating the circuit-breaker threshold, use the MOSFET's RON at the worst possible operating condition, and add a 25% overcurrent margin to the maximum circuit current. For instance, if a MOSFET has an R_{ON} of 0.06 Ω at T_A = +25°C, and a normalized onresistance factor of 1.75 at $T_A = +130^{\circ}C$ (from the MOSFET data sheet), the RON used for calculation is the product of these two numbers, or $(0.06\Omega) \times (1.75) =$ 0.105Ω . Then, if the maximum current is expected to be 2A, using a 25% margin, the current for calculation is $(2A) \times (1.25) = 2.5A$. The resulting minimum circuitbreaker threshold is then the product of these two results, or $(0.105\Omega) \times (2.5A) = 0.263V$. The next highest minimum available threshold is 0.265V of the MAX590_ _BEUT, which is an ideal choice given these parameters. Using this method to choose a circuitbreaker threshold allows the circuit to operate under worst-case conditions without causing a circuit-breaker fault, but the circuit-breaker function will still operate if a short-circuit or gross overcurrent condition occurs. See Table 1 for MOSFET suggestions. The MAX5900N/ MAX5901N have no circuit-breaker function. For these parts choose an external MOSFET that meets the load requirements.

Determining Inrush Current

Determining a circuit's inrush current is necessary to help choose the proper MOSFET. The MAX5900/ MAX5901 regulate the inrush current by means of controlling the load voltage slew rate, but inrush current is also a function of load capacitance. Determine inrush current using:

$$I = C \frac{dV}{dt} = C \times SR$$

where C is the load capacitance, and SR is the MAX5900/MAX5901 Load Voltage Slew-Rate Magnitude from the *Electrical Characteristics* table. For example, assuming a load capacitance of 100μ F, and using the typical value of 10V/ms for the slew rate, the inrush current is 1A typical.

If the maximum possible Load Voltage Slew Rate is used, the maximum inrush current calculates to 1.7A. Choose a MOSFET with a maximum pulsed current specification that exceeds the maximum inrush current.

MAXIMUM I _{LOAD} (A)	SUGGESTED EXTERNAL MOSFET	SUGGESTED MAXIM PART
0.25	IRFL110	MAX590CEUT
0.5	IRFL4310	MAX590BEUT
1	IRFR3910	MAX590CEUT
2	IRF540NS	MAX590BEUT
3	IRF1310NS	MAX590BEUT
4	IRF1310NS	MAX590CEUT

Suggested External MOSFETs

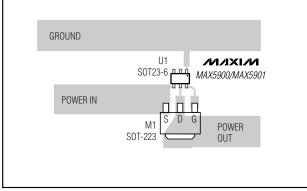
 $V_{IN} = -9V to -90V$



Layout Guidelines

Good thermal contact between the MAX5900/ MAX5901 and the external MOSFET is essential for the thermal shutdown feature to operate effectively. Place the MAX5900/MAX5901 as close as possible to the drain of the external MOSFET, and use wide circuit board traces for good heat transfer. See Figure 5 for an example of a PC board layout.

Chip Information



TRANSISTOR COUNT: 678 PROCESS: BICMOS

Figure 5. Circuit Board Layout Example

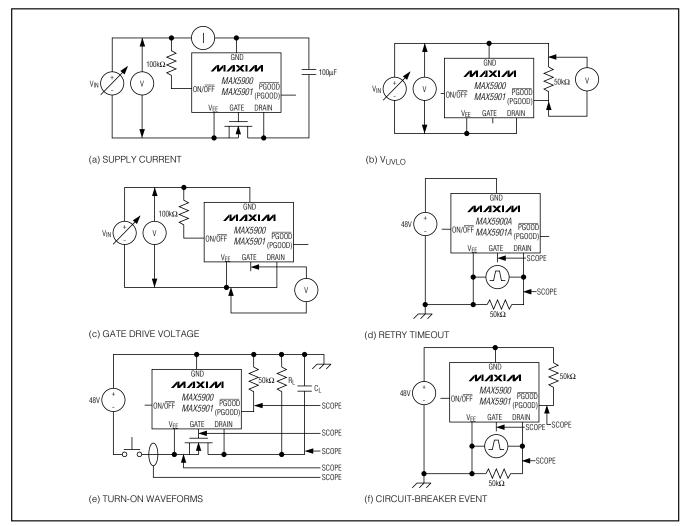


Figure 6. Test Circuits

Selector Guide

SOT23

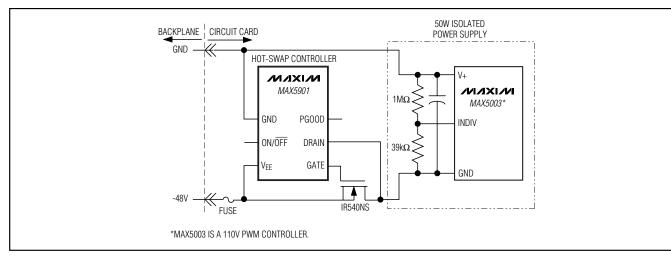
PART	CIRCUIT-BREAKER FUNCTION	CIRCUIT-BREAKER THRESHOLD (mV)	POWER-GOOD OUTPUT LOGIC	TOP MARK
MAX5900NNEUT+T	None	None	Active-Low	AAQV
MAX5900AAEUT+T	Autoretry	200	Active-Low	AAQJ
MAX5900ABEUT+T	Autoretry	300	Active-Low	AAQK
MAX5900ACEUT+T	Autoretry	400	Active-Low	AAQL
MAX5900LAEUT+T	Latched	200	Active-Low	AAQM
MAX5900LBEUT+T	Latched	300	Active-Low	AAQN
MAX5900LCEUT+T	Latched	400	Active-Low	AAQO
MAX5901NNEUT+T	None	None	Active-High	AAQW
MAX5901AAEUT+T	Autoretry	200	Active-High	AAQP
MAX5901ABEUT+T	Autoretry	300	Active-High	AAQQ
MAX5901ACEUT+T	Autoretry	400	Active-High	AAQR
MAX5901LAEUT+T	Latched	200	Active-High	AAQS
MAX5901LBEUT+T	Latched	300	Active-High	AAQT
MAX5901LCEUT+T	Latched	400	Active-High	AAQU

TDFN

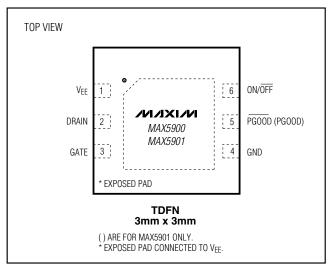
PART	CIRCUIT-BREAKER FUNCTION	CIRCUIT-BREAKER THRESHOLD (mV)	POWER-GOOD OUTPUT LOGIC	TOP MARK
MAX5900NNETT+T	None	None	Active-Low	AJT
MAX5900AAETT+T	Autoretry	200	Active-Low	AJU
MAX5900ABETT+T	Autoretry	300	Active-Low	AJV
MAX5900ACETT+T	Autoretry	400	Active-Low	AJW
MAX5900LAETT+T	Latched	200	Active-Low	AJX
MAX5900LBETT+T	Latched	300	Active-Low	AJY
MAX5900LCETT+T	Latched	400	Active-Low	AJZ
MAX5901NNETT+T	None	None	Active-High	AKA
MAX5901AAETT+T	AETT+T Autoretry 200 Active		Active-High	AKB
MAX5901ABETT+T	Autoretry	300	Active-High	AKC
MAX5901ACETT+T	Autoretry	400	Active-High	AKD
MAX5901LAETT+T	Latched	200	Active-High	AKE
MAX5901LBETT+T	5901LBETT+T Latched 300		Active-High	AKF
MAX5901LCETT+T	Latched	400	Active-High	AKG

+Denotes lead-free package.

Typical Operating Circuits (continued)



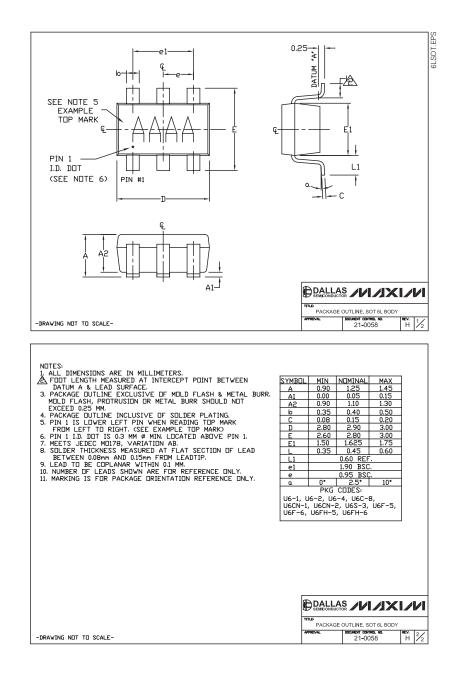
Pin Configurations (continued)



MAX5900/MAX5901

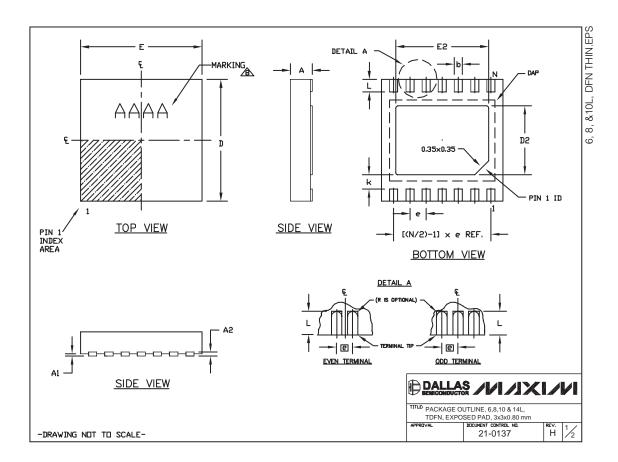
Package Information

(The package drawing(s) in this data sheet may not reflect the most current specifications. For the latest package outline information, go to **www.maxim-ic.com/packages**.)



Package Information (continued)

(The package drawing(s) in this data sheet may not reflect the most current specifications. For the latest package outline information, go to **www.maxim-ic.com/packages**.)



_Package Information (continued)

(The package drawing(s) in this data sheet may not reflect the most current specifications. For the latest package outline information, go to **www.maxim-ic.com/packages**.)

COMMON		ISIONS		PACKAGE V	ARIAT	TIONS					
SYMBOL	MIN.	MAX.		PKG. CODE	Ν	D2	E2	е	JEDEC SPEC	b	[(N/2)-1] x e
А	0.70	0.80		T633-1	6	1.50±0.10	2.30±0.10	0.95 BSC	MO229 / WEEA	0.40±0.05	1.90 REF
D	2.90	3.10		T633-2	6	1.50±0.10	2.30±0.10	0.95 BSC	MO229 / WEEA	0.40±0.05	1.90 REF
E	2.90	3.10		T833-1	8	1.50±0.10	2.30±0.10	0.65 BSC	MO229 / WEEC	0.30±0.05	1.95 REF
A1	0.00	0.05		T833-2	8	1.50±0.10	2.30±0.10	0.65 BSC	MO229 / WEEC	0.30±0.05	1.95 REF
L	0.20	0.40		T833-3	8	1.50±0.10	2.30±0.10	0.65 BSC	MO229 / WEEC	0.30±0.05	1.95 REF
k	0.25	MIN.		T1033-1	10	1.50±0.10	2.30±0.10	0.50 BSC	MO229 / WEED-3	0.25±0.05	2.00 REF
A2	0.20	REF.		T1033-2	10	1.50±0.10	2.30±0.10	0.50 BSC	MO229 / WEED-3	0.25±0.05	2.00 REF
			•	T1433-1	14	1.70±0.10	2.30±0.10	0.40 BSC		0.20±0.05	2.40 REF
				T1433-2	14	1.70±0.10	2.30±0.10	0.40 BSC		0.20±0.05	2.40 REF
2. COPL 3. WARP 4. PACK 5. DRAW 6. "N" II 7. NUME	ANARITY AGE SH AGE LE ING CO S THE BER OF	' SHALL IALL NC NGTH/P NFORMS TOTAL I LEADS	NOT EXC T EXCEEL ACKAGE \ TO JED IUMBER (SHOWN A	. ANGLES IN SEED 0.08 m 0 0.10 mm. VIDTH ARE CC CC MO229, E F LEADS. RE FOR REFI RIENTATION R	m. DNSID XCEP EREN	ERED AS S T DIMENSIO CE ONLY.	NS "D2" AN		C(S). Ю Т1433—1 & Т	1433–2.	

Revision History

Pages changed at Rev 5: 1-4, 10, 12-14

Maxim cannot assume responsibility for use of any circuitry other than circuitry entirely embodied in a Maxim product. No circuit patent licenses are implied. Maxim reserves the right to change the circuitry and specifications without notice at any time.



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								ENGLISH	???? ??? ???		
Λ							SITE	н	PART NO. SEARCH		
WHA	T'S NEW	PRODUCTS	SOLUTIONS	DESIGN	APPNOTES	SUPPORT	BUY	COMPANY	MEMBERS		
	Maxim >	Products > Powe	er and Battery Ma	nagement Hot-S	wap and Power Sv	witching					
	Quick	/iew Techn	-100\ ical Documents	/, SOT23/TDFN	900, M	per Hot-Swap					
	Ordering Information										
	Notes:	her ontions an	nd links for pure	hasing parts a	re listed at: htt	n•//www.maxi	m-ic.com/sales.				

- Didn't Find What You Need? Ask our applications engineers. Expert assistance in finding parts, usually within one business day.
- Part number suffixes: T or T&R = tape and reel; + = RoHS/lead-free; # = RoHS/lead-exempt. More: SeeFull Data Sheet or Part Naming Conventions.
- 4. * Some packages have variations, listed on the drawing. "PkgCode/Variation" tells which variation the product uses.

MAX5900	Fre e Sam ple	Buy	Package: TYPE PINS FOOTPRINT DRAWING CODE/VAR *	Temp	RoHS/Lead-Free? Materials Analysis
MAX5900EUT-T					RoHS/Lead-Free: See data sheet
MAX5900ABEUT+				-40C to +85C	RoHS/Lead-Free: See data sheet
MAX5900LBEUT+				-40C to +85C	RoHS/Lead-Free: See data sheet
MAX5900LCEUT+				-40C to +85C	RoHS/Lead-Free: See data sheet
MAX5900LAEUT+				-40C to +85C	RoHS/Lead-Free: See data sheet
MAX5900ACEUT+				-40C to +85C	RoHS/Lead-Free: See data sheet
MAX5900ABEUT+T				-40C to +85C	RoHS/Lead-Free: See data sheet
MAX5900NNEUT+			SOT-23;6 pin;9 mm Dwg: 21-0058I (PDF) Use pkgcode/variation: U6F+6*	-40C to +85C	RoHS/Lead-Free: Lead Free Materials Analysis
MAX5900ACEUT+T				-40C to +85C	RoHS/Lead-Free: See data sheet
MAX5900NNEUT+T			SOT-23;6 pin;9 mm Dwg: 21-0058I (PDF) Use pkgcode/variation: U6F+6*	-40C to +85C	RoHS/Lead-Free: Lead Free Materials Analysis
MAX5900AAEUT+T			SOT-23;6 pin;9 mm Dwg: 21-0058I (PDF) Use pkgcode/variation: U6F+6*	-40C to +85C	RoHS/Lead-Free: Lead Free Materials Analysis
MAX5900AAEUT+			SOT-23;6 pin;9 mm Dwg: 21-0058I (PDF) Use pkgcode/variation: U6F+6*	-40C to +85C	RoHS/Lead-Free: Lead Free Materials Analysis
MAX5900LCEUT+T				-40C to +85C	RoHS/Lead-Free: See data sheet

Devices: 1-113 of 113

MAX5900LAEUT+T 40C to +85C RoH5/Lead-Free: See data sheet MAX5900LBEUT+T -00C to +85C RoH5/Lead-Free: See data sheet MAX5900ABEUT 507-23:6 gins9 mm Dwg: 21-0051 (PDP) Use pkgcode/varation: U6F-6* -40C to +85C RoH5/Lead-Free: No Materials Analysis MAX5900LEUT 507-23:6 gins9 mm Dwg: 21-0058 (PDP) Use pkgcode/varation: U6F-6* -40C to +85C RoH5/Lead-Free: No Materials Analysis MAX5900LEUT 507-23:6 gins9 mm Dwg: 21-0058 (PDP) Use pkgcode/varation: U6F-6* -40C to +85C RoH5/Lead-Free: No Materials Analysis MAX5900LEUT 507-23:6 gins9 mm Dwg: 21-0058 (PDP) Use pkgcode/varation: U6F-6* -40C to +85C RoH5/Lead-Free: No Materials Analysis MAX5900LEUT 507-23:6 gins9 mm Use pkgcode/varation: U6F-6* -40C to +85C RoH5/Lead-Free: No Materials Analysis MAX5900LEUT 507-23:6 gins9 mm Use pkgcode/varation: U6F-6* -40C to +85C RoH5/Lead-Free: No Materials Analysis MAX5900LEUT 507-23:6 gins9 mm Use pkgcode/varation: U6F-6* -40C to +85C RoH5/Lead-Free: No Materials Analysis MAX5900LEUT 507-23:6 gins9 mm Use pkgcode/varation: U6F-6* -40C to +85C RoH5/Lead-Free: No Materials Analysis MAX5900LEUT 507-23:6 gins9 mm Use pkgcode/varation: U6F-6* -40C to +85C RoH5/Lead-Free: No Materials Analysis MAX5900LEUT 507-23:6 gins9 mm Use pkgcode/varation: U6F-6* -40C to +85C RoH5/Lead-Free: No Materials Analysis MAX5900LEUT-T 507-23:6 gins9 mm Use pkgcode/varation: U6F-6* -40C to +85C RoH5/Lead-Fre	MAX5900LAEUT+T		40C to 195C	Rous / and Frage Sag data shoot
MAXS900ABEUT SOT-23;6 pin;9 mm Dws: 21-0058 (PDF) Use pkqcode/variation: U6F-6* -40C to +85C RolfS/Lead-Free: No Materials Analysis MAXS900AEUT SOT-23;6 pin;9 mm Dws: 21-0058 (PDF) Use pkqcode/variation: U6F-6* -40C to +85C RolfS/Lead-Free: No Materials Analysis MAXS900LAEUT SOT-23;6 pin;9 mm Dws: 21-0058 (PDF) Use pkqcode/variation: U6F-6* -40C to +85C RolfS/Lead-Free: No Materials Analysis MAXS900LCEUT SOT-23;6 pin;9 mm Dws: 21-0058 (PDF) Use pkqcode/variation: U6F-6* -40C to +85C RolfS/Lead-Free: No Materials Analysis MAXS900LEUT SOT-23;6 pin;9 mm Dws: 21-0058 (PDF) Use pkqcode/variation: U6F-6* -40C to +85C RolfS/Lead-Free: No Materials Analysis MAXS900LEUT SOT-23;6 pin;9 mm DWS: 23;6 pin;9 mm Use pkqcode/variation: U6F-6* -40C to +85C RolfS/Lead-Free: No Materials Analysis MAXS900LEUT SOT-23;6 pin;9 mm Use pkqcode/variation: U6F-6* -40C to +85C RolfS/Lead-Free: No Materials Analysis MAXS900LEUT SOT-23;6 pin;9 mm Use pkqcode/variation: U6F-6* -40C to +85C RolfS/Lead-Free: No Materials Analysis MAXS900LEUT-T SOT-23;6 pin;9 mm Dws: 21:0058 (PDF) Use pkqcode/variation: U6F-6* -40C to +85C RolfS/Lead-Free: No Materials Analysis MAXS900LEUT-T SOT-23;6 pin;9 mm Dws: 21:0058 (PDF) Use pkqcode/variation: U6F-6* -40C to +85C RolfS/Lead-Free: No Materials Analysis MAXS900LEUT-T SOT-23;6 pin;	MAX5900LAE01+1		-400 10 +850	KONS/Leau-Free: See data sheet
Dwg: 21 0058 (PDF) Use pfcqde/variation: U6F-61Materials AnalysisMAX5900AAEUTControl (Control (Contro) (Control (Contro) (Contr	MAX5900LBEUT+T		-40C to +85C	RoHS/Lead-Free: See data sheet
Dwg: 21-00581 (PDF) Use pkqcode/variation: U6F-64Materials AnalysisMAX5900LAEUTSOT-23:6 pin;9 nm Dwg: 21-00581 (PDF) Use pkqcode/variation: U6F-64-40C to +85C RoH5/Lead-Free: N0 Materials AnalysisMAX5900LEEUTSOT-23:6 pin;9 nm Dwg: 21-00581 (PDF) Use pkqcode/variation: U6F-64-40C to +85C RoH5/Lead-Free: N0 Materials AnalysisMAX5900LEEUTSOT-23:6 pin;9 nm Dwg: 21-00581 (PDF) Use pkqcode/variation: U6F-64-40C to +85C RoH5/Lead-Free: N0 Materials AnalysisMAX5900LCEUTSOT-23:6 pin;9 nm Dwg: 21-00581 (PDF) Use pkqcode/variation: U6F-64-40C to +85C RoH5/Lead-Free: N0 Materials AnalysisMAX5900LCEUTSOT-23:6 pin;9 nm Dwg: 21-00581 (PDF) Use pkqcode/variation: U6F-64-40C to +85C RoH5/Lead-Free: N0 Materials AnalysisMAX5900LEEUT-TSOT-23:6 pin;9 nm Dwg: 21-00581 (PDF) Use pkqcode/variation: U6F-64-40C to +85C RoH5/Lead-Free: N0 Materials AnalysisMAX5900LEEUT-TSOT-23:6 pin;9 nm Dwg: 21-00581 (PDF) Use pkqcode/variation: U6F-64-40C to +85C RoH5/Lead-Free: N0 Materials AnalysisMAX5900LEEUT-TSOT-23:6 pin;9 nm Dwg: 21-00581 (PDF) Use pkqcode/variation: U6F-64-40C to +85C RoH5/Lead-Free: N0 Materials AnalysisMAX5900LAEUT-TSOT-23:6 pin;9 nm Dwg: 21-00581 (PDF) Use pkqcode/variation: U6F-64-40C to +85C RoH5/Lead-Free: N0 Materials AnalysisMAX5900LAEUT-TSOT-23:6 pin;9 nm Dwg: 21-00581 (PDF) Use pkqcode/variation: U6F-64-40C to +85C RoH5/Lead-Free: N0 Materials AnalysisMAX5900LAEUT-TSOT-23:6 pin;9 nm Dwg: 21-00581 (PDF) Use pkqcode/variation: U6F-64-40C to +85C RoH5/Lead-Free: N0 Materials	MAX5900ABEUT	Dwg: 21-0058I (PDF)	-40C to +85C	
Dwg: 21-00581 (PDF) Use pkqcode/variation: U6F-6+Materials AnalysisMAX5900LEUTSOT-32;6 pin;9 nm Dwg: 21-00581 (PDF) Use pkqcode/variation: U6F-6+-40C to +85CRoH5/Lead-Free: No Materials AnalysisMAX5900LEUTSOT-23;6 pin;9 nm Dwg: 21-00581 (PDF) Use pkqcode/variation: U6F-6+-40C to +85CRoH5/Lead-Free: No Materials AnalysisMAX5900LEUTSOT-23;6 pin;9 nm Dwg: 21-00581 (PDF) Use pkqcode/variation: U6F-6+-40C to +85CRoH5/Lead-Free: No Materials AnalysisMAX5900LEUTSOT-23;6 pin;9 nm Dwg: 21-00581 (PDF) Use pkqcode/variation: U6F-6+-40C to +85CRoH5/Lead-Free: No Materials AnalysisMAX5900LEUTSOT-23;6 pin;9 nm Dwg: 21-00581 (PDF) Use pkqcode/variation: U6F-6+-40C to +85CRoH5/Lead-Free: No Materials AnalysisMAX5900LEUT-TSOT-23;6 pin;9 nm Dwg: 21-00581 (PDF) Use pkqcode/variation: U6F-6+-40C to +85CRoH5/Lead-Free: No Materials AnalysisMAX5900LEUT-TSOT-23;6 pin;9 nm Dwg: 21-00581 (PDF) Use pkqcode/variation: U6F-6+-40C to +85CRoH5/Lead-Free: No Materials AnalysisMAX5900LAEUT-TSOT-23;6 pin;9 nm Dwg: 21-00581 (PDF) Use pkqcode/variation: U6F-6+-40C to +85CRoH5/Lead-Free: No Materials AnalysisMAX5900LAEUT-TSOT-23;6 pin;9 nm Dwg: 21-00581 (PDF) Use pkqcode/variation: U6F-6+-40C to +85CRoH5/Lead-Free: No Materials AnalysisMAX5900LAEUT-TSOT-23;6 pin;9 nm Dwg: 21-00581 (PDF) Use pkqcode/variation: U6F-6+-40C to +85CRoH5/Lead-Free: No Materials AnalysisMAX5900LAEUT-TSOT-23;6 pin;9 nm Dwg: 21-00581 (PDF) Use pkqcod	MAX5900AAEUT	Dwg: 21-0058I (PDF)	-40C to +85C	
Deg: 21-025SI (PDF) Use pkgcode/variation: U6F-6*Materials AnalysisMAX5900LBEUTSOT-23.5 pin.59 mm Use pkgcode/variation: U6F-6*-40C to +85C Atterials AnalysisMAX5900LCEUTSOT-23.5 pin.59 mm Use pkgcode/variation: U6F-6*-40C to +85C Atterials AnalysisMAX5900LAEUT-TSOT-23.5 pin.59 mm Use pkgcode/variation: U6F-6*-40C to +85C Atterials AnalysisMAX5900LEUT-TSOT-23.5 pin.59 mm Use pkgcode/variation: U6F-6*-40C to +85C Atterials AnalysisMAX5900LEUT-TSOT-23.5 pin.59 mm Use pkgcode/variation: U6F-6*-40C to +85C Atterials AnalysisMAX5900LEUT-TSOT-23.5 pin.59 mm Use pkgcode/variation: U6F-6*-40C to +85C Atterials AnalysisMAX5900LAEUT-TSOT-23.5 pin.59 mm Use pkgcode/variation: U6F-6*-40C to +85C Atterials AnalysisMAX5900LAEUT-TSOT-23.5 pin.59 mm Use pkgcode/variation: U6F-6*-40C to +85C Atterials AnalysisMAX5900LEUT-TSOT-23.5	MAX5900LAEUT	Dwg: 21-0058I (PDF)	-40C to +85C	
Dws: 21-00581 (PDF) Use pkgcode/variation: U6F-6*Materials AnalysisMAX5900NNEUTSOT-23.6 pin:9 mm Dws: 21-00581 (PDF) Use pkgcode/variation: U6F-6*-40C to +85C Mattrials AnalysisRoH5/Lead-Free: No Materials AnalysisMAX5900NNEUT-TSOT-23.6 pin:9 mm Dws: 21-00581 (PDF) Use pkgcode/variation: U6F-6*-40C to +85C Materials AnalysisRoH5/Lead-Free: No Materials AnalysisMAX5900AEUT-TSOT-23.6 pin:9 mm Dws: 21-00581 (PDF) Use pkgcode/variation: U6F-6*-40C to +85C Materials AnalysisRoH5/Lead-Free: No Materials AnalysisMAX5900AEUT-TSOT-23.6 pin:9 mm Dws: 21-00581 (PDF) Use pkgcode/variation: U6F-6*-40C to +85C Materials AnalysisRoH5/Lead-Free: No Materials AnalysisMAX5900LCEUT-TSOT-23.6 pin:9 mm Dws: 21-00581 (PDF) Use pkgcode/variation: U6F-6*-40C to +85C Materials AnalysisRoH5/Lead-Free: No Materials AnalysisMAX5900LCEUT-TSOT-23.6 pin:9 mm Dws: 21-00581 (PDF) Use pkgcode/variation: U6F-6*-40C to +85C Materials AnalysisRoH5/Lead-Free: No Materials AnalysisMAX5900LAEUT-TSOT-23.6 pin:9 mm Dws: 21-00581 (PDF) Use pkgcode/variation: U6F-6*-40C to +85C Materials AnalysisRoH5/Lead-Free: No Materials AnalysisMAX5900AEUT-TSOT-23.6 pin:9 mm Dws: 21-00581 (PDF) Use pkgcode/variation: U6F-6*-40C to +85C Materials AnalysisMAX5900AEUT-TSOT-23.6 pin:9 mm Dws: 21-00581 (PDF) Use pkgcode/variation: U6F-6*-40C to +85C Materials AnalysisMAX5900AEUT-TSOT-23.6 pin:9 mm Dws: 21-00581 (PDF) Use pkgcode/variation: T633-2*-40C to +85C Materials Analysis<	MAX5900ACEUT	Dwg: 21-0058I (PDF)	-40C to +85C	
Dwg: 21-00581 (PDP) Use pkgcode/variation: U6F-6*Materials AnalysisMAX5900LCEUTSOT-23;6 pin;9 mm Dwg: 21-00581 (PDP) Use pkgcode/variation: U6F-6*-40C to +85C Adterials AnalysisRoH5/Lead-Free: No Materials AnalysisMAX5900NAEUT-TCotSOT-23;6 pin;9 mm Dwg: 21-00581 (PDP) Use pkgcode/variation: U6F-6*-40C to +85C Adterials AnalysisRoH5/Lead-Free: No Materials AnalysisMAX5900LAEUT-TCotSOT-23;6 pin;9 mm Dwg: 21-00581 (PDP) Use pkgcode/variation: U6F-6*-40C to +85C Adterials AnalysisRoH5/Lead-Free: No Materials AnalysisMAX5900LEUT-TCotSOT-23;6 pin;9 mm Dwg: 21-00581 (PDP) Use pkgcode/variation: U6F-6*-40C to +85C RoH5/Lead-Free: No Materials AnalysisMAX5900LAEUT-TCotSOT-23;6 pin;9 mm Dwg: 21-00581 (PDP) Use pkgcode/variation: U6F-6*-40C to +85C RoH5/Lead-Free: No Materials AnalysisMAX5900LAEUT-TCotSOT-23;6 pin;9 mm Dwg: 21-00581 (PDP) Use pkgcode/variation: U6F-6*-40C to +85C RoH5/Lead-Free: No Materials AnalysisMAX5900ACEUT-TCotSOT-23;6 pin;9 mm Dwg: 21-00581 (PDP) Use pkgcode/variation: U6F-6*-40C to +85C RoH5/Lead-Free: No Materials AnalysisMAX5900AEUT-TCotSOT-23;6 pin;9 mm Dwg: 21-00581 (PDP) Use pkgcode/variation: U6F-6*-40C to +85C RoH5/Lead-Free: No Materials AnalysisMAX5900AEUT-TCotSOT-23;6 pin;9 mm Dwg: 21-01371 (PDP) Use pkgcode/variation: 16F-6*-40C to +85C RoH5/Lead-Free: No Materials AnalysisMAX5900AEUT-TCotSOT-23;6 pin;9 mm Dwg: 21-01371 (PDP) Use pkgcode/variation: 16F-6* <td>MAX5900LBEUT</td> <td>Dwg: 21-0058I (PDF)</td> <td>-40C to +85C</td> <td></td>	MAX5900LBEUT	Dwg: 21-0058I (PDF)	-40C to +85C	
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MAX5900NNETT-T	THIN QFN (Dual);6 pin;10 mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T633-2*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis
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MAX5900LBETT-T	THIN QFN (Dual);6 pin;10 mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T633-2*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis
MAX5900LAETT+T	THIN QFN (Dual);6 pin;10 mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T633+2*	-40C to +85C	RoHS/Lead-Free: Lead Free Materials Analysis
MAX5900LCETT-T	THIN QFN (Dual);6 pin;10 mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T633-2*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis
MAX5900LCETT+T	THIN QFN (Dual);6 pin;10 mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T633+2*	-40C to +85C	RoHS/Lead-Free: Lead Free Materials Analysis
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MAX5901ACEUT+		-40C to +85C	RoHS/Lead-Free: See data sheet
MAX5901AAEUT+	SOT-23;6 pin;9 mm Dwg: 21-0058I (PDF) Use pkgcode/variation: U6F+6*	-40C to +85C	RoHS/Lead-Free: Lead Free Materials Analysis
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MAX5901LAEUT+T		-40C to +85C	RoHS/Lead-Free: See data sheet
MAX5901AAEUT+T	SOT-23;6 pin;9 mm Dwg: 21-0058I (PDF) Use pkgcode/variation: U6F+6*	-40C to +85C	RoHS/Lead-Free: Lead Free Materials Analysis
MAX5901ABEUT+	SOT-23;6 pin;9 mm Dwg: 21-0058I (PDF) Use pkgcode/variation: U6F+6*	-40C to +85C	RoHS/Lead-Free: Lead Free Materials Analysis
MAX5901NNEUT+	SOT-23;6 pin;9 mm Dwg: 21-0058I (PDF) Use pkgcode/variation: U6F+6*	-40C to +85C	RoHS/Lead-Free: Lead Free Materials Analysis
MAX5901ACEUT+T		-40C to +85C	RoHS/Lead-Free: See data sheet
MAX5901ABEUT+T	SOT-23;6 pin;9 mm Dwg: 21-0058I (PDF) Use pkgcode/variation: U6F+6*	-40C to +85C	RoHS/Lead-Free: Lead Free Materials Analysis
MAX5901NNEUT+T	SOT-23;6 pin;9 mm Dwg: 21-0058I (PDF) Use pkgcode/variation: U6F+6*	-40C to +85C	RoHS/Lead-Free: Lead Free Materials Analysis
MAX5901LAEUT	SOT-23;6 pin;9 mm Dwg: 21-0058I (PDF) Use pkgcode/variation: U6F-6*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis
MAX5901ABEUT	SOT-23;6 pin;9 mm Dwg: 21-0058I (PDF) Use pkgcode/variation: U6F-6*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis
MAX5901LCEUT	SOT-23;6 pin;9 mm Dwg: 21-0058I (PDF) Use pkgcode/variation: U6F-6*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis
MAX5901NNEUT	SOT-23;6 pin;9 mm Dwg: 21-0058I (PDF) Use pkgcode/variation: U6F-6*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis
MAX5901AAEUT	SOT-23;6 pin;9 mm Dwg: 21-0058I (PDF) Use pkgcode/variation: U6F-6*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis
MAX5901LBEUT	SOT-23;6 pin;9 mm Dwg: 21-0058I (PDF) Use pkgcode/variation: U6F-6*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis
MAX5901ACEUT	SOT-23;6 pin;9 mm Dwg: 21-0058I (PDF) Use pkgcode/variation: U6F-6*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis
MAX5901LCEUT-T	SOT-23;6 pin;9 mm Dwg: 21-0058I (PDF) Use pkgcode/variation: U6F-6*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis
MAX5901AAEUT-T	SOT-23;6 pin;9 mm Dwg: 21-0058I (PDF) Use pkgcode/variation: U6F-6*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis
MAX5901NNEUT-T	SOT-23;6 pin;9 mm Dwg: 21-0058I (PDF) Use pkgcode/variation: U6F-6*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis

MAX5901ABEUT-T	SOT-23;6 pin;9 mm Dwg: 21-0058I (PDF) Use pkgcode/variation: U6F-6*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis
MAX5901ACEUT-T	SOT-23;6 pin;9 mm Dwg: 21-0058I (PDF) Use pkgcode/variation: U6F-6*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis
MAX5901LBEUT-T	SOT-23;6 pin;9 mm Dwg: 21-0058I (PDF) Use pkgcode/variation: U6F-6*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis
MAX5901LAEUT-T	SOT-23;6 pin;9 mm Dwg: 21-0058I (PDF) Use pkgcode/variation: U6F-6*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis
MAX5901LCETT	THIN QFN (Dual);6 pin;10 mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T633-2*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis
MAX5901AAETT+	THIN QFN (Dual);6 pin;10 mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T633+2*	-40C to +85C	RoHS/Lead-Free: Lead Free Materials Analysis
MAX5901ACETT+	THIN QFN (Dual);6 pin;10 mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T633+2*	-40C to +85C	RoHS/Lead-Free: Lead Free Materials Analysis
MAX5901AAETT	THIN QFN (Dual);6 pin;10 mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T633-2*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis
MAX5901ABETT+	THIN QFN (Dual);6 pin;10 mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T633+2*	-40C to +85C	RoHS/Lead-Free: Lead Free Materials Analysis
MAX5901LCETT+	THIN QFN (Dual);6 pin;10 mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T633+2*	-40C to +85C	RoHS/Lead-Free: Lead Free Materials Analysis
MAX5901NNETT+	THIN QFN (Dual);6 pin;10 mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T633+2*	-40C to +85C	RoHS/Lead-Free: Lead Free Materials Analysis
MAX5901LBETT	THIN QFN (Dual);6 pin;10 mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T633-2*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis
MAX5901LBETT+	THIN QFN (Dual);6 pin;10 mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T633+2*	-40C to +85C	RoHS/Lead-Free: Lead Free Materials Analysis
MAX5901LAETT	THIN QFN (Dual);6 pin;10 mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T633-2*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis
MAX5901LAETT+	THIN QFN (Dual);6 pin;10 mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T633+2*	-40C to +85C	RoHS/Lead-Free: Lead Free Materials Analysis
MAX5901ACETT	THIN QFN (Dual);6 pin;10 mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T633-2*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis
MAX5901NNETT	THIN QFN (Dual);6 pin;10 mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T633-2*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis
MAX5901ABETT	THIN QFN (Dual);6 pin;10 mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T633-2*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis
MAX5901NNETT+T	THIN QFN (Dual);6 pin;10 mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T633+2*	-40C to +85C	RoHS/Lead-Free: Lead Free Materials Analysis
MAX5901AAETT+T	THIN QFN (Dual);6 pin;10 mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T633+2*	-40C to +85C	RoHS/Lead-Free: Lead Free Materials Analysis
MAX5901AAETT-T	THIN QFN (Dual);6 pin;10 mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T633-2*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis
MAX5901NNETT-T	THIN QFN (Dual);6 pin;10 mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T633-2*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis
MAX5901ABETT-T	THIN QFN (Dual);6 pin;10 mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T633-2*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis

MAX5901LCETT-TTHIN QFN (Dual);6 pin;10 mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T633-2*-40C to +85CRoHS/Lead-Free: No Materials AnalysisMAX5901LCETT+TTHIN QFN (Dual);6 pin;10 mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T633+2*-40C to +85CRoHS/Lead-Free: Lead Free Materials Analysis	
Dwg: 21-0137I (PDF)Materials AnalysisUse pkgcode/variation: T633+2*	
MAX5901LBETT-T THIN QFN (Dual);6 pin;10 mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T633-2* Add the second secon	
MAX5901LBETT+T THIN QFN (Dual);6 pin;10 mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T633+2* -40C to +85C RoHS/Lead-Free: Lead Free Materials Analysis	
MAX5901LAETT-T THIN QFN (Dual);6 pin;10 mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T633-2* -40C to +85C RoHS/Lead-Free: No Materials Analysis	
MAX5901LAETT+T THIN QFN (Dual);6 pin;10 mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T633+2* -40C to +85C RoHS/Lead-Free: Lead Free Materials Analysis	
MAX5901ACETT-T THIN QFN (Dual);6 pin;10 mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T633-2* -40C to +85C RoHS/Lead-Free: No Materials Analysis	
MAX5901ACETT+T THIN QFN (Dual);6 pin;10 mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T633+2* -40C to +85C RoHS/Lead-Free: Lead Free Materials Analysis	
MAX5901ABETT+T THIN QFN (Dual);6 pin;10 mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T633+2* -40C to +85C RoHS/Lead-Free: Lead Free Materials Analysis	

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