## Data Sheet

## FEATURES

Physical layer CAN transceiver
5 V operation on $\mathrm{V}_{\mathrm{cc}}$
Complies with ISO 11898 standard
High speed data rates up to 1 Mbps
Short-circuit protection on CANH and CANL against shorts to
power/ground in $\mathbf{2 4 V}$ systems
Unpowered nodes do not disturb the bus
Connect $\mathbf{1 1 0}$ or more nodes on the bus
Slope control for reduced EMI
Thermal shutdown protection
Low current standby mode
Industrial operating temperature range $\left(-40^{\circ} \mathrm{C}\right.$ to $\left.+125^{\circ} \mathrm{C}\right)$
Available in 8-lead SOIC package

## APPLICATIONS

## CAN data buses

Industrial field networks
DeviceNet applications
CanOpen, CanKingdom

## GENERAL DESCRIPTION

The ADM3051 is a controller area network (CAN) physical layer transceiver allowing a protocol layer CAN controller to access the physical layer bus. The ADM3051 complies with the ISO 11898 standard. It is capable of running at data rates up to 1 Mbps.
The device has current-limiting and thermal shutdown features to protect against output short circuits and situations where the bus may be shorted to ground or power terminals in 24 V bus power systems. The part is fully specified over the industrial temperature range of $-40^{\circ} \mathrm{C}$ to $+125^{\circ} \mathrm{C}$ and is available in an 8-lead SOIC package.

## FUNCTIONAL BLOCK DIAGRAM



Figure 1.

Three operating modes are available: high speed, slope control, and standby. Pin 8 (RS) is used to select the operating mode. The low current standby mode can be selected by applying a logic high to RS.
The device can be set to operate with slope control to limit EMI by connecting RS with a resistor to ground to modify the rise and fall of slopes. This mode facilitates the use of unshielded cables. Alternatively, disabling slope control by connecting RS to ground allows high speed operation. Shielded cables or other measures to control EMI are necessary in this mode.

## ADM3051

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ADM3051

## SPECIFICATIONS

All voltages relative to ground (Pin 2); $4.5 \mathrm{~V} \leq \mathrm{V}_{\mathrm{CC}} \leq 5.5 \mathrm{~V} . \mathrm{T}_{\mathrm{A}}=-40^{\circ} \mathrm{C}$ to $+125^{\circ} \mathrm{C}, \mathrm{R}_{\mathrm{L}}=60 \Omega$, $\mathrm{I}_{\mathrm{RS}}>-10 \mu \mathrm{~A}$, unless otherwise noted. All typical specifications are at $\mathrm{T}_{\mathrm{A}}=25^{\circ} \mathrm{C}, \mathrm{V}_{\mathrm{CC}}=5 \mathrm{~V}$, unless otherwise noted.

Table 1.

| Parameter | Symbol | Min | Typ | Max | Unit | Test Conditions/Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SUPPLY CURRENT <br> Dominant State <br> Recessive State <br> Standby State | Icc |  | 275 | $\begin{aligned} & 78 \\ & 10 \end{aligned}$ | $\begin{aligned} & \mathrm{mA} \\ & \mathrm{~mA} \\ & \mu \mathrm{~A} \end{aligned}$ | $\begin{aligned} & V_{T \times D}=1 \mathrm{~V} \\ & V_{T \times D}=4 \mathrm{~V} ; \mathrm{RSLLOPE}=47 \mathrm{k} \Omega \\ & \mathrm{~V}_{\mathrm{RS}}=\mathrm{V}_{\mathrm{CC},} \mathrm{I}_{\mathrm{T} \times \mathrm{D}}=I_{\mathrm{RXD}}=I_{\mathrm{VREF}}=0 \mathrm{~mA}, \mathrm{~T}_{\mathrm{A}}<90^{\circ} \mathrm{C} \end{aligned}$ |
| DRIVER <br> Logic Inputs Input Voltage High <br> Input Voltage Low <br> CMOS Logic Input Current High <br> CMOS Logic Input Current Low <br> Differential Outputs <br> Recessive Bus Voltage <br> Off-State Output Leakage Current <br> CANH Output Voltage <br> CANL Output Voltage Differential Output Voltage <br> Short-Circuit Current, CANH <br> Short-Circuit Current, CANL | $\mathrm{V}_{\mathrm{H}}$ <br> $\mathrm{V}_{\mathrm{IL}}$ <br> $\mathrm{I}_{\mathrm{H}}$ <br> IIL <br> $\mathrm{V}_{\text {Canh }} \mathrm{V}_{\text {Canl }}$ <br> lıo <br> Lo <br> $\mathrm{V}_{\text {Canh }}$ <br> Vaanl <br> $V_{\text {od }}$ <br> Vod <br> Vod <br> Isccanh <br> Isccanh <br> Isccanl | $\begin{aligned} & 0.7 \mathrm{~V}_{\mathrm{cc}} \\ & -0.3 \\ & -200 \\ & -100 \\ & 2.0 \\ & -2 \\ & -10 \\ & 3.0 \\ & 0.5 \\ & 1.5 \\ & 1.5 \\ & -500 \end{aligned}$ | $-100$ | $V_{c c}+0.3$ $+0.3 \mathrm{~V}_{\mathrm{cc}}$ +30 -600 3.0 +2 +10 4.5 2.0 3.0 +50 -200 200 | V <br> V <br> $\mu \mathrm{A}$ <br> $\mu \mathrm{A}$ <br> v <br> mA <br> mA <br> V <br> V <br> V <br> V <br> mV <br> mA <br> mA <br> mA | Output recessive <br> Output dominant $\begin{aligned} & V_{T \times D}=4 \mathrm{~V} \\ & V_{T \times D}=1 \mathrm{~V} \end{aligned}$ $\begin{aligned} & \mathrm{V}_{\mathrm{TXD}}=4 \mathrm{~V}, \mathrm{R}_{\mathrm{L}}=\infty \text {, see Figure } 23 \\ & -2 \mathrm{~V}<\left(\mathrm{V}_{\text {CALL }}, \mathrm{V}_{\text {CANH }}\right)<7 \mathrm{~V} \\ & -5 \mathrm{~V}<\left(\mathrm{V}_{\text {CANL }}, \mathrm{V}_{\text {CANH }}\right)<36 \mathrm{~V} \\ & \mathrm{~V}_{\mathrm{TXD}}=1 \mathrm{~V} \text {, see Figure } 23 \\ & \mathrm{~V}_{\mathrm{TXD}}=1 \mathrm{~V} \text {, see Figure } 23 \\ & \mathrm{~V}_{\mathrm{TXD}}=1 \mathrm{~V} \text {, see Figure } 23 \\ & \mathrm{~V}_{\mathrm{TXD}}=1 \mathrm{~V}, \mathrm{R}_{\mathrm{L}}=45 \Omega \text {, see Figure } 23 \\ & \mathrm{~V}_{\mathrm{TXD}}=4 \mathrm{~V}, \mathrm{R}_{\mathrm{L}}=\infty \text {, see Figure } 23 \\ & \mathrm{~V}_{\text {CANH }}=-5 \mathrm{~V} \\ & \mathrm{~V}_{\text {CANH }}=-36 \mathrm{~V} \\ & \mathrm{~V}_{\text {CANL }}=36 \mathrm{~V} \end{aligned}$ |
| RECEIVER <br> Differential Inputs <br> Voltage Recessive <br> Voltage Dominant <br> Input Voltage Hysteresis <br> CANH, CANL Input Resistance <br> Differential Input Resistance <br> Logic Outputs <br> Output Voltage High <br> Output Voltage Low <br> Short-Circuit Current | $V_{I R}$ <br> VIDD <br> Vhys <br> Rin <br> R ${ }_{\text {DIFF }}$ <br> VoH <br> Vo <br> VoL <br> \|los| | $\begin{aligned} & -1.0 \\ & -1.0 \\ & 0.9 \\ & 1.0 \\ & \\ & 5 \\ & 20 \\ & 0.8 \mathrm{Vcc} \\ & 0 \\ & 0 \end{aligned}$ | $150$ | $\begin{aligned} & +0.5 \\ & +0.4 \\ & 5.0 \\ & 5.0 \\ & \\ & 25 \\ & 100 \\ & \\ & \mathrm{~V}_{\mathrm{cc}} \\ & 0.2 \mathrm{~V}_{\mathrm{cc}} \\ & 1.5 \\ & 120 \end{aligned}$ | V <br> V <br> v <br> v <br> mV <br> $\mathrm{k} \Omega$ <br> $\mathrm{k} \Omega$ <br> V <br> V <br> V <br> mA |  |
| VOLTAGE REFERENCE <br> Reference Output Voltage | $\begin{aligned} & V_{\text {REF }} \\ & V_{\text {REF }} \end{aligned}$ | $\begin{aligned} & 2.025 \\ & 0.4 \mathrm{~V}_{\mathrm{cc}} \end{aligned}$ |  | $\begin{aligned} & 3.025 \\ & 0.6 \mathrm{~V}_{\mathrm{cc}} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{V} \\ & \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \mathrm{V}_{\mathrm{RS}}=1 \mathrm{~V},\\| \\|_{\mathrm{REF}}=50 \mu \mathrm{~A} \\ & \mathrm{~V}_{\mathrm{RS}}=4 \mathrm{~V},\left\|\\|_{\mathrm{REF}}\right\|=5 \mu \mathrm{~A} \\ & \hline \end{aligned}$ |
| STANDBY/SLOPE CONTROL Input Voltage for Standby Mode Current for Slope Control Mode Slope Control Mode Voltage | $V_{\text {stb }}$ Islope <br> Vslope | $\begin{aligned} & 0.75 \mathrm{~V}_{c \mathrm{c}} \\ & -10 \\ & 0.4 \mathrm{~V}_{c c} \end{aligned}$ |  | $\begin{aligned} & -200 \\ & 0.6 \mathrm{~V}_{\mathrm{cc}} \end{aligned}$ | $\begin{aligned} & \mathrm{V} \\ & \mu \mathrm{~A} \\ & \mathrm{~V} \end{aligned}$ |  |

[^0]
## ADM3051

## TIMING SPECIFICATIONS

All voltages are relative to ground $(\operatorname{Pin} 2) ; 4.5 \mathrm{~V} \leq \mathrm{V}_{\mathrm{CC}} \leq 5.5 \mathrm{~V} . \mathrm{T}_{\mathrm{A}}=-40^{\circ} \mathrm{C}$ to $+125^{\circ} \mathrm{C}$, unless otherwise noted.
Table 2.

| Parameter | Symbol | Min | Typ | Max | Unit | Test Conditions/Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DRIVER |  |  |  |  |  |  |
| Maximum Data Rate |  | 1 |  |  | Mbps | $\mathrm{V}_{\mathrm{RS}}=1 \mathrm{~V}$ |
| Propagation Delay from TxD On to Bus Active | tonTxD |  |  | 50 | ns | $V_{R S}=1 \mathrm{~V}, R_{L}=60 \Omega, C_{L}=100 \mathrm{pF}$, see Figure 24, Figure 27 |
| Propagation Delay from TxD Off to Bus Inactive | $\mathrm{t}_{\text {offix }}$ |  | 40 | 80 | ns | $V_{R S}=1 \mathrm{~V}, R_{L}=60 \Omega, C_{L}=100 \mathrm{pF}$, see Figure 24, Figure 27 |
| RECEIVER |  |  |  |  |  |  |
| Propagation Delay from TxD On to Receiver Active | tonkx |  | 55 | 120 | ns | $V_{\text {RS }}=1 V, R_{L}=60 \Omega, C_{L}=100 p F$, see Figure 24, Figure 27 |
|  |  |  | 440 | 600 | ns | $R_{\text {SLOPE }}=47 \mathrm{k} \Omega, \mathrm{R}_{\mathrm{L}}=60 \Omega, \mathrm{C}_{\mathrm{L}}=100 \mathrm{pF}$, see Figure 24, Figure 27 |
| Propagation Delay from TxD Off to Receiver Inactive | toffrxx |  | 90 | 190 | ns | RsLOPE $=0 \Omega, R_{L}=60 \Omega, C_{L}=100 \mathrm{pF}$, see Figure 24, Figure 27 |
|  |  |  | 290 | 400 | ns | RsLOPE $=47 \mathrm{k} \Omega, R_{L}=60 \Omega, C_{L}=100 \mathrm{pF}$, see Figure 24, Figure 27 |
| Bus Dominant to RxD Low | taRxDL |  |  | 3 | $\mu \mathrm{s}$ | $V_{R S}=4 V, V_{T \times D}=4 V, R_{L}=60 \Omega, C_{L}=100 \mathrm{pF} \text {, see }$ Figure 24, Figure 29 |
| CANH, CANL Slew Rate | \|SR| |  | 7 |  | V/ $/ \mathrm{s}$ | RsLOPE $=47 \mathrm{k} \Omega, \mathrm{R}_{\mathrm{L}}=60 \Omega, C_{\mathrm{L}}=100 \mathrm{pF}$, see Figure 24, Figure 27 |
| TIME TO WAKE-UP FROM STANDBY | twake |  |  | 20 | $\mu \mathrm{s}$ | $\mathrm{V}_{\mathrm{T} \times \mathrm{D}}=1 \mathrm{~V}$, see Figure 28 |

## ABSOLUTE MAXIMUM RATINGS

Table 3.

| Parameter | Rating |
| :---: | :---: |
| $\mathrm{V}_{\text {cc }}$ | -0.3 V to +7 V |
| Digital Input Voltage |  |
| TxD | -0.3 V to $\mathrm{Vcc}+0.3 \mathrm{~V}$ |
| Digital Output Voltage |  |
| RxD | -0.3 V to $\mathrm{V}_{\text {cc }}+0.3 \mathrm{~V}$ |
| CANH, CANL | -36 V to +36 V |
| $V_{\text {REF }}$ | -0.3 V to $\mathrm{V}_{\mathrm{cc}}+0.3 \mathrm{~V}$ |
| RS | -0.3 V to $\mathrm{V}_{\mathrm{cc}}+0.3 \mathrm{~V}$ |
| Operating Temperature Range | $-40^{\circ} \mathrm{C}$ to $+125^{\circ} \mathrm{C}$ |
| Storage Temperature Range | $-55^{\circ} \mathrm{C}$ to $+150^{\circ} \mathrm{C}$ |
| ESD (Human Body Model) on All Pins | 4 kV |
| Lead Temperature |  |
| Soldering (10 sec) | $300^{\circ} \mathrm{C}$ |
| Vapor Phase (60 sec) | $215^{\circ} \mathrm{C}$ |
| Infrared (15 sec) | $220^{\circ} \mathrm{C}$ |
| $\theta_{\text {JA }}$ Thermal Impedance | $110^{\circ} \mathrm{C} / \mathrm{W}$ |
| TJ Junction Temperature | $150^{\circ} \mathrm{C}$ |

Stresses at or above those listed under Absolute Maximum Ratings may cause permanent damage to the product. This is a stress rating only; functional operation of the product at these or any other conditions above those indicated in the operational section of this specification is not implied. Operation beyond the maximum operating conditions for extended periods may affect product reliability.

## ESD CAUTION

|  | ESD (electrostatic discharge) sensitive device. <br> Charged devices and circuit boards can discharge <br> without detection. Although this product features <br> patented or proprietary protection circuitry, damage <br> may occur on devices subjected to high energy ESD. <br> Therefore, proper ESD precautions should be taken to <br> avoid performance degradation or loss of functionality. |
| :--- | :--- |

## PIN CONFIGURATION AND FUNCTION DESCRIPTIONS



Table 4. Pin Function Descriptions

| Pin No. | Mnemonic | Description |
| :--- | :--- | :--- |
| 1 | TxD | Driver Input Data. |
| 2 | GND | Ground. |
| 3 | V cC | Power Supply. This pin requires a decoupling capacitor to GND of 100 nF. |
| 4 | RxD | Receiver Output Data. |
| 5 | VREF | Reference Voltage Output. |
| 6 | CANL | Low Level CAN Voltage Input/Output. |
| 7 | CANH | High Level CAN Voltage Input/Output. |
| 8 | RS | Slope Resistor Input. |

TYPICAL PERFORMANCE CHARACTERISTICS


Figure 3. Propagation Delay from TxD On to Receiver Active vs. Temperature


Figure 4. Propagation Delay from TxD On to Receiver Active vs. Supply Voltage


Figure 5. Propagation Delay (Slope Control Mode, $R_{\text {sLOPE }}=47 \mathrm{k} \Omega$ ) from $T x D$ On to Receiver Active vs. Temperature


Figure 6. Propagation Delay (Slope Control Mode, $R_{\text {SLOPE }}=47 \mathrm{k} \Omega$ ) from TxD On to Receiver Active vs. Supply Voltage


Figure 7. Propagation Delay from TxD Off to Receiver Inactive vs. Temperature


Figure 8. Propagation Delay from TxD Off to Receiver Inactive vs. Supply Voltage


Figure 9. Propagation Delay (Slope Control Mode, RsLope $=47 \mathrm{k} \Omega$ ) from $T x D$ Off to Receiver Inactive vs. Temperature


Figure 10. Propagation Delay (Slope Control Mode, RSLOPE $=47 \mathrm{k} \Omega$ ) from TxD Off to Receiver Inactive vs. Supply Voltage


Figure 11. Receiver Input Hysteresis vs. Temperature


Figure 12. Propagation Delay from TxD Off to Bus Inactive vs. Temperature


Figure 13. Propagation Delay from TxD Off to Bus Inactive vs. Supply Voltage


Figure 14. Propagation Delay from $T_{x} D$ On to Bus Active vs. Temperature


Figure 15. Propagation Delay from TxD On to Bus Active vs. Supply Voltage


Figure 16. Supply Current (Icc) vs. Data Rate


Figure 17. Driver Differential Output Voltage Dominant vs. Temperature


Figure 18. Driver Differential Output Voltage Dominant vs. Supply Voltage


Figure 19. Receiver Output High Voltage vs. Temperature


Figure 20. Receiver Output Low Voltage vs. Temperature


Figure 21. VREF vs. Temperature


Figure 22. Driver Slew Rate vs. Resistance, Rslope

## TEST CIRCUITS AND SWITCHING CHARACTERISTICS



Figure 23. Driver Voltage Measurements


Figure 24. Switching Characteristics Measurements


Figure 25. Receiver Voltage Measurements



Figure 27. Driver and Receiver Propagation Delay


Figure 28. Wake-Up Delay Returning from Standby Mode


Figure 29. Bus Dominant to RxD Low (Standby Mode)

## CIRCUIT DESCRIPTION

## CAN TRANSCEIVER OPERATION

A CAN bus has two states: dominant and recessive. A dominant state is present on the bus when the differential voltage between CANH and CANL is greater than 0.9 V . A recessive state is present on the bus when the differential voltage between CANH and CANL is less than 0.5 V . During a dominant bus state, the CANH pin is high and the CANL pin is low. During a recessive bus state, both the CANH and CANL pins are in the high impedance state.

The driver drives CANH high and CANL low (dominant state) if a logic low is present on TxD. If a logic high is present on TxD , the driver output is placed in a high impedance state (recessive state). The driver output states are shown in Table 7.
The receiver output is low if the bus is in the dominant state and high if the bus is in the recessive state. If the differential voltage between CANH and CANL is between 0.5 V and 0.9 V , the bus state is indeterminate and the receiver output may be high or low. The receiver output states for given inputs are listed in Table 8.

## OPERATIONAL MODES

Three modes of operation are available: high speed, slope control, and standby. RS (Pin 8) allows modification of the operational mode by connecting the RS input through a resistor to ground, or directly to ground, or to a CAN controller, as shown in Figure 30.
With RS connected to ground, the output transistors switch on and off at the maximum rate possible in high speed mode, with no modification to the rise and fall slopes. EMI in this mode can be alleviated using shielded cables.
Alternatively, connecting RS to a resistor, RsLope, allows slope control mode, with the value of the resistor modifying the rise and fall slopes. The reduced EMI allows the use of unshielded cables.
Applying a logic high to RS initiates a low current standby mode. The transmitter is disabled, and the receiver is connected to a low current. RxD goes low upon receiving dominant bits, allowing an attached microcontroller that detects this to wake the transceiver via Pin 8, which returns it to standard operation. The receiver is slower in standby mode and loses the first message at higher bit rates.

Table 5. Mode Selection Using RS Pin (Pin 8)

| Mode | Condition to Force | Resulting <br> Voltage/Current |
| :--- | :--- | :--- |
| Standby | $\mathrm{V}_{\mathrm{RS}}>0.75 \mathrm{~V}_{\mathrm{CC}}$ | $-\mathrm{I}_{\mathrm{RS}}<10 \mu \mathrm{~A}$ |
| Slope Control | $10 \mu \mathrm{~A}<-\mathrm{I}_{\mathrm{RS}}<200 \mu \mathrm{~A}$ | $0.4 \mathrm{~V}_{\mathrm{CC}}<\mathrm{V}_{\mathrm{RS}}<0.6 \mathrm{~V}_{\mathrm{CC}}$ |
| High Speed | $\mathrm{V}_{\mathrm{RS}}<0.3 \mathrm{~V}_{\mathrm{CC}}$ | $-\mathrm{I}_{\mathrm{RS}}<-500 \mu \mathrm{~A}$ |

## TRUTH TABLES

The truth tables in this section use the abbreviations found in Table 6.

Table 6. Truth Table Abbreviations

| Letter | Description |
| :--- | :--- |
| H | High level |
| L | Low level |
| X | Don't care |
| I | Indeterminate |
| Z | High impedance (off) |
| NC | Disconnected |

Table 7. Transmitting

| Supply | Input | Outputs |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Vcc | TxD | State | CANH | CANL |
| On | L | Dominant | H | L |
| On | H | Recessive | Z | Z |
| On | Z | Recessive | Z | Z |
| Off | X | Z | Z | Z |

Table 8. Receiving

| Supply | Inputs |  | Output |
| :--- | :--- | :--- | :--- |
| $\mathbf{V}_{\text {CC }}$ | $\mathbf{V}_{\text {ID }}=$ CANH - CANL | Bus State | RxD |
| On | $\geq 0.9 \mathrm{~V}$ | Dominant | L |
| On | $\leq 0.5 \mathrm{~V}$ | Recessive | H |
| On | $0.5 \mathrm{~V}<\mathrm{V}_{\text {ID }}<0.9 \mathrm{~V}$ | I | I |
| On | Inputs open | Recessive | H |
| Off | X | X | I |

## THERMAL SHUTDOWN

The ADM3051 contains thermal shutdown circuitry that protects the part from excessive power dissipation during fault conditions. Shorting the driver outputs to a low impedance source can result in high driver currents. The thermal sensing circuitry detects the increase in die temperature under this condition and disables the driver outputs. The design of this circuitry ensures the disabling of driver outputs upon reaching a die temperature of $150^{\circ} \mathrm{C}$. As the device cools, reenabling of the drivers occurs at a temperature of $140^{\circ} \mathrm{C}$.

## APPLICATIONS INFORMATION



NOTES

1. RTIS

Figure 30. Typical CAN Node Using the ADM3051


NOTES

1. MAXIMUM NUMBER OF NODES: 110.
2. $\mathrm{R}_{\mathrm{T}}$ IS EQUAL TO THE CHARACTERISTIC IMPEDANCE OF THE CABLE USED.

## OUTLINE DIMENSIONS



ORDERING GUIDE

| Model $^{1}$ | Temperature Range | Package Description | Package Option |
| :--- | :--- | :--- | :--- |
| ADM3051CRZ | $-40^{\circ} \mathrm{C}$ to $+125^{\circ} \mathrm{C}$ | 8-Lead Standard Small Outline Package [SOIC_N] | R-8 |
| ADM3051CRZ-REEL7 | $-40^{\circ} \mathrm{C}$ to $+125^{\circ} \mathrm{C}$ | 8 -Lead Standard Small Outline Package [SOIC_N] | R-8 |
| EVAL-ADM3051EBZ |  | Evaluation Board |  |

[^1]
## ADM3051

## NOTES

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components
Click to view similar products for CAN Interface IC category:
Click to view products by Analog Devices manufacturer:
Other Similar products are found below :
416694H MCP2515-E/P TJA1042T,118 IL41050TA-1E TJA1042T1J TJA1042T31J SN65LBC031DG4 MAX13051ESA+T SJA1000T/N1.118 MCP2561FD-EP TLE6251DSXUMA2 MCP2542FDT-E/MNY IA82527PQF44AR2 ADM3053BRWZ-REEL7 ADM3051CRZ-REEL7 ADM3052BRWZ-REEL7 IA82527PLC44AR2 LT3960JMSE\#TRPBF TD041SCANH TDH541SCANH SIT1050TK SIT1040TK MAX3053ESA+T MAX13041ASDV MAX3057ASA+T MCP2515T-I/ST NCV7341D21R2G AMIS41682CANM1RG MAX3056ASD + MAX3054ASD+ MAX3055ASD + MCP2517FDT-H/SL MAX13051ASA+ TJA1050T/CM,118 TJA1040TCM, 118 MCP2510-I/P MCP2510-I/SO MCP2510-I/ST MCP2515-E/ST MCP2515-I/P MCP2515-I/SO MCP2515-I/ST MCP2515T-I/SO MCP2551E/P MCP2551-E/SN MCP2551-I/P MCP2551-I/SN MCP2561-E/P MCP2561-H/SN MCP2561T-ESN


[^0]:    ${ }^{1}$ In standby, V cc $=4.75 \mathrm{~V}$ to 5.25 V .

[^1]:    ${ }^{1} \mathrm{Z}=$ RoHS Compliant Part.

