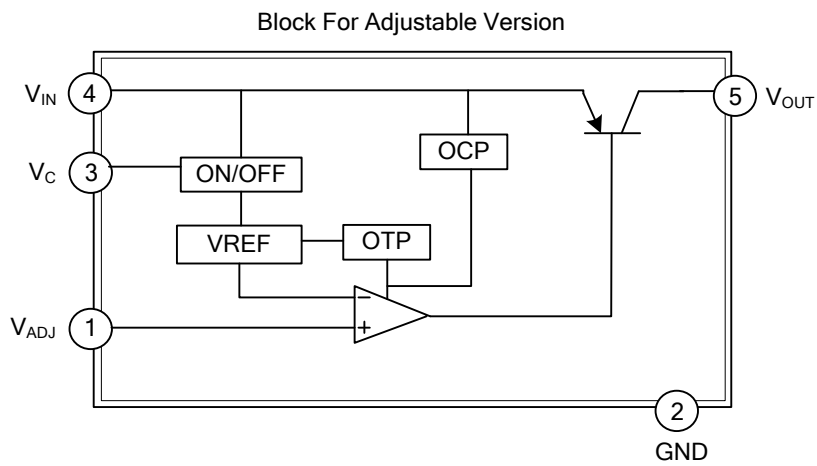
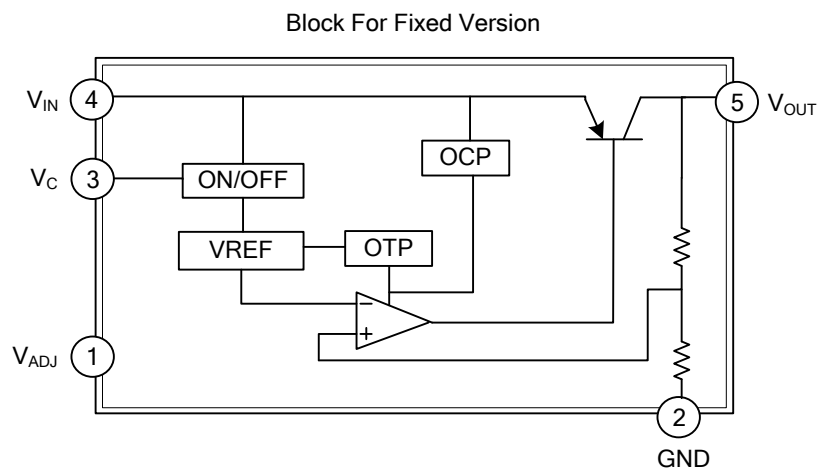


■ PIN DESCRIPTIONS

| PIN NO. | PIN NAME | FUNCTION |
|---------|------------------|---------------------------|
| 1 | V _{ADJ} | Output voltage adjustment |
| 2 | GND | Ground |
| 3 | V _C | ON/OFF control |
| 4 | V _{IN} | DC input |
| 5 | V _{OUT} | DC output |

■ BLOCK DIAGRAM



■ ABSOLUTE MAXIMUM RATINGS

| PARAMETER | SYMBOL | RATINGS | UNITS |
|--|-----------|------------|-------|
| Input Voltage (Note 2) | V_{IN} | 9 | V |
| ON/OFF Control Voltage (Note 2) | V_C | 9 | V |
| Output Adjustment pin Voltage (Note 2) | V_{ADJ} | 5 | V |
| Output Current | I_{OUT} | 500 | mA |
| Power Dissipation | P_D | 900 | mW |
| Junction Temperature | T_J | 150 | °C |
| Operating Temperature | T_{OPR} | -30 ~ +85 | °C |
| Storage Temperature | T_{STG} | -55 ~ +150 | °C |

Note: 1. Absolute maximum ratings are those values beyond which the device could be permanently damaged.

Absolute maximum ratings are stress ratings only and functional device operation is not implied.

2. All are open except GND and applicable terminals.

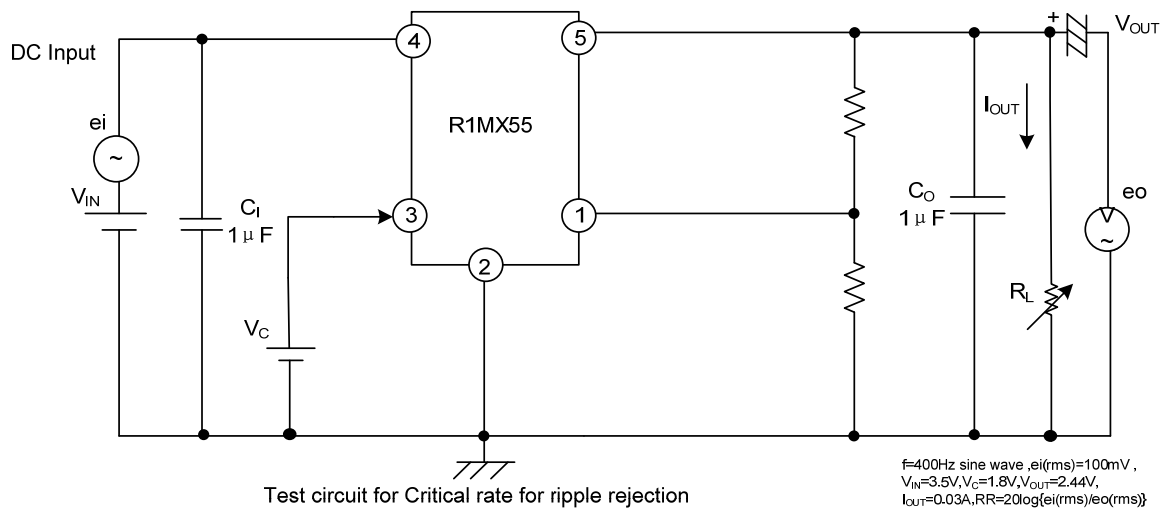
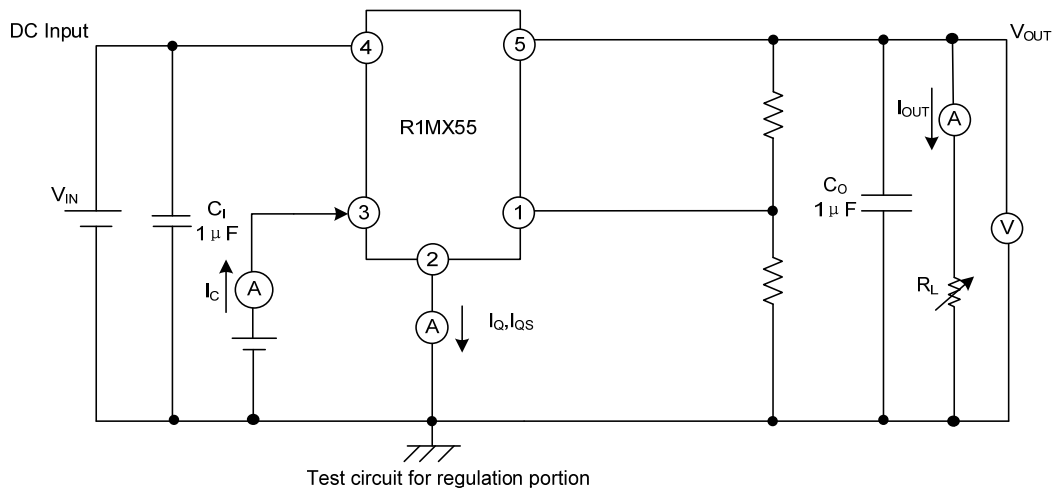
■ ELECTRICAL CHARACTERISTICS

($V_{IN}=3.5V$, $V_{OUT}=2.44V$ ($R_1=R_2=100K\Omega$), $I_{OUT}=30mA$, $V_C=1.8V$, $T_A=25^\circ C$, unless otherwise specified)

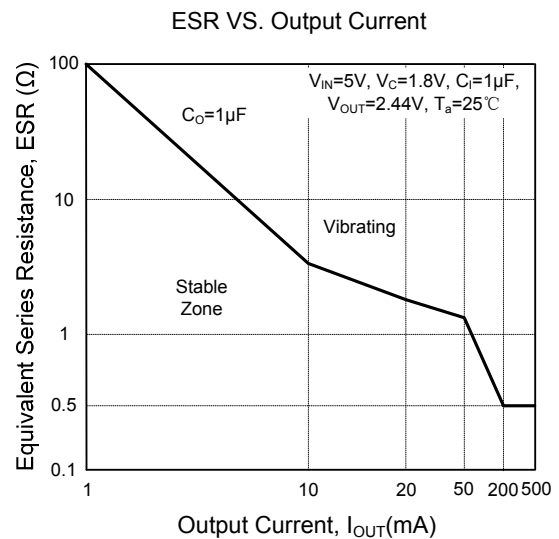
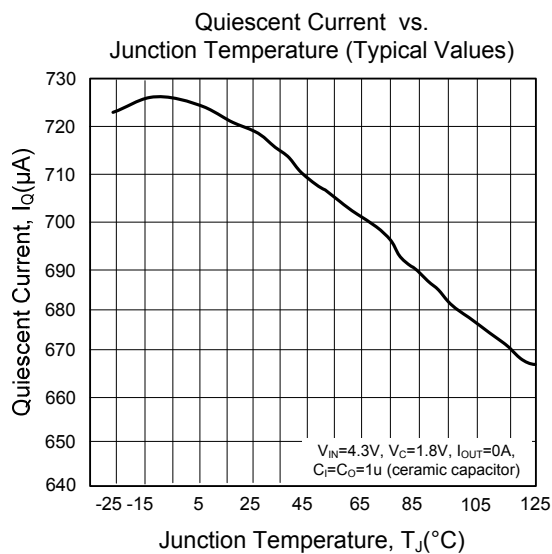
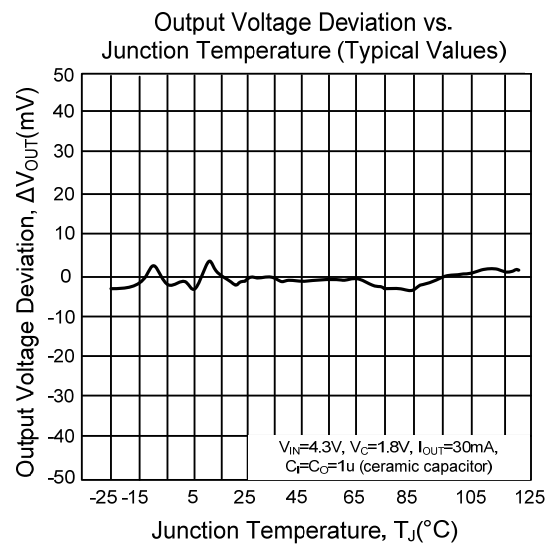
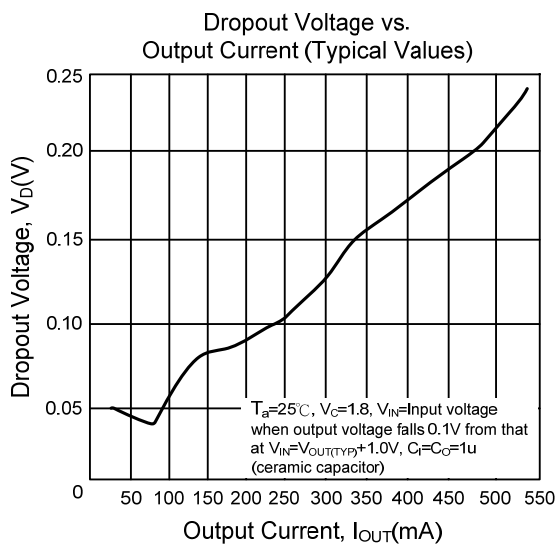
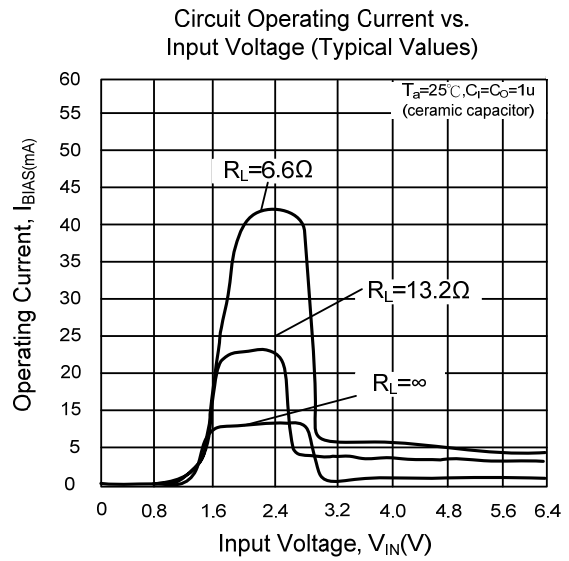
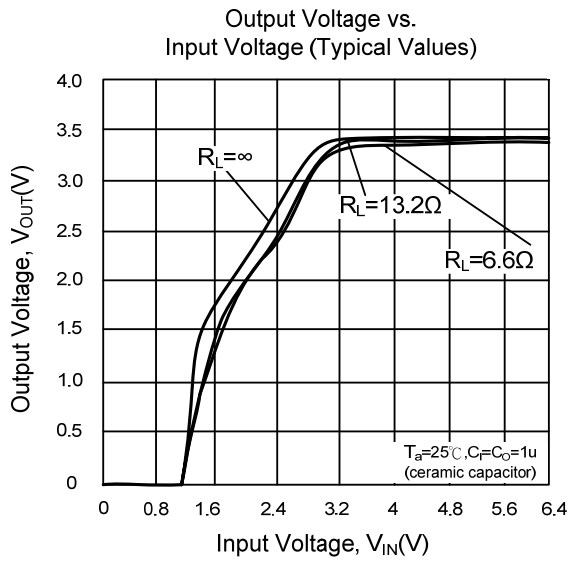
| PARAMETER | SYMBOL | CONDITIONS | MIN | TYP | MAX | UNITS |
|---|------------------|--|-------|-----------|-------|---------|
| Input Voltage | V_{IN} | | 2.6 | | 9.0 | V |
| Output Voltage | V_{OUT} | | 1.3 | | 5.0 | V |
| Load Regulation | ΔV_{OUT} | $I_{OUT}=5\sim 500mA$ | | 10 | 100 | mV |
| Line Regulation | ΔV_{OUT} | $V_{IN}=3.5\sim 8.5V$ | | 6 | 20 | mV |
| Ripple Rejection | RR | | | 55 | | dB |
| Dropout Voltage | V_D | $I_{OUT}=500mA$ | | | 0.7 | V |
| Reference Voltage | V_{REF} | | 1.196 | 1.22 | 1.244 | V |
| Temperature Coefficient of Output Voltage | $T_C V_{OUT}$ | $T_J=25\sim 75^\circ C$, $I_{OUT}=10mA$ | | ± 0.1 | | mV/°C |
| Output Noise Voltage | $V_{NO(RMS)}$ | $10Hz < f < 100kHz$ | | 100 | | μV |
| On-State Voltage for Control | $V_{C(ON)}$ | (Note) | 1.8 | | | V |
| On-State Current for Control | $I_{C(ON)}$ | $V_C=1.8V$ | | 20 | 70 | μA |
| Off-State Voltage for Control | $V_{C(OFF)}$ | | | | 0.4 | V |
| Quiescent Current | I_Q | $I_{OUT}=0A$ | | 0.8 | 1.2 | mA |
| Output Off-State Consumption Current | I_{QS} | $V_C=0.2V$ | | | 1 | μA |

Note: In case that the control terminal (3th pin) is non-connection, output voltage should be OFF state.

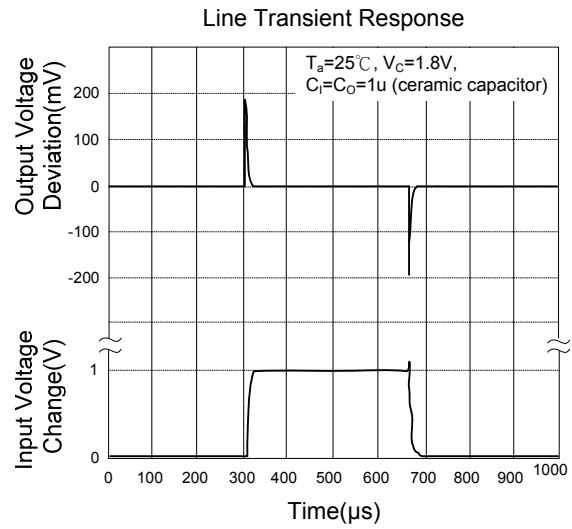
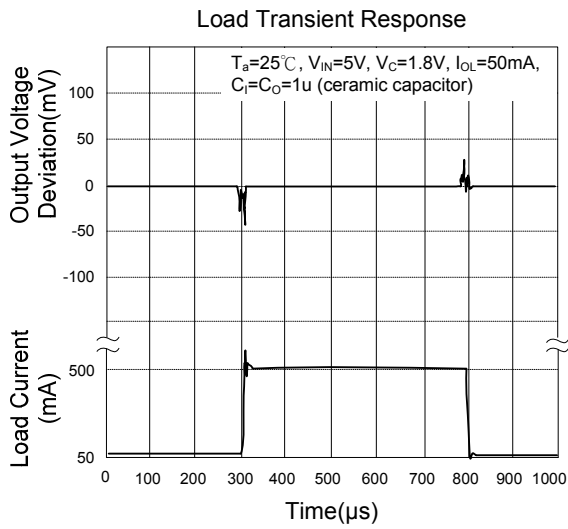
■ ELECTRICAL CHARACTERISTICS MEASURING CIRCUIT



TYPICAL CHARACTERISTICS



■ TYPICAL CHARACTERISTICS(Cont.)



UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.