## DROPPER TYPE REGULATORS

| Type No. | Absolute Maximum Ratings | | | | | Electrical Characteristics ($T_A$=25°C) | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Input Voltage | Reset Signal Output Terminal Voltage | Output Current | Power Dissipation ($T_C$=25°C) | Operating Terpera-ture | Input Voltage | Output Voltage | Input-Output Differential Voltage | Output Voltage Regulation (against Input Voltage) | Output Voltage Regulation (against Output Current) | |
| | $V_I$ (V) | $V_{RST}$ (V) | $I_O$ (A) | $P_D$ (W) | $T_A$ (°C) | $V_I$ (V) | $V_O$ (V) | $V_{DIF}$(V) max | (mV) max | (mV) max | |
| SI-3050R | 35 | $V_{IN}$ | 1.5 | 18 | -30 to +100 | 6 to 30 | 5 ± 0.2 | 1.0 | 30 | 100 | Built-in reset circuit |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| | Input Voltage | Output Current | Power Dissipation ($T_C$=25°) | Operating Tempera-ture | Input Voltage | Output Voltage $V_O$ (V) | | Input-Output Differential Voltage | Temperature Coefficient | Ripple Rejection | |
| | $V_I$ (V) | $I_O$ (A) | $P_D$ (W) | $T_A$ (°C) | $V_I$ (V) | 3000C* | 3000CA | $V_{DIF}$(V) max | (mV/°C)typ | (dB) typ | |
| SI-3050C | | | | | 6 to 30 | 5 ± 0.2 | 5 ± 0.1 | | ±0.5 | | Low power dissipation |
| SI-3090C | | | | | 10 to 30 | 9 ± 0.36 | 9 ± 0.18 | | ±1.0 | | Remote sensing possible |
| SI-3120C | 35 | 1.5 | 18 | -30 to +100 | 13 to 30 | 12 ± 0.48 | 12 ± 0.24 | 1.0 | +1.5 | 54 | Built-in overcurrent, |
| SI-3150C | | | | | 16 to 30 | 15 ± 0.6 | 15 ± 0.3 | | ±1.5 | | overvoltage and |
| SI-3240C | 45 | | | | 25 to 40 | 24 ± 0.96 | 24 ± 0.48 | | ±2.5 | | overheating protection |

*"A" may be marked on the side of marking.

| Type No. | Absolute Maximum Ratings | | | | Electrical Characteristics ($T_A$=25°C) | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Input Voltage | Output Current | Power Dissipation | Operating Tempera-ture | Output Voltage | Minimum Input-Output Differential Voltage | Termpera-ture Coefficient | Output Voltage Regulation (against Input Voltage) | Output Voltage Regulation (against Output Current) | Ripple Rejec-tion | |
| | $V_I$ (V) | $I_O$ (A) | ($T_C$=25°C) $P_D$ (W) | $T_A$ (°C) | $V_O$(V) | $V_{DIF}$ (V) max | (mV/°C) typ | (mv typ | (mV) typ | (dB) typ | |
| SI-3052V | 25 | | | | 5 ± 0.1 | | ±0.5 | 10 | 40 | | Low power dissipation |
| SI-3122V | | 2.0 | 50 | -20 to +100 | 12 ± 0.2 | 1.0 | ±1.5 | 20 | 80 | 54 | Built-in overcurrent |
| SI-3152V | 30 | | | ($T_C$) | 15 ± 0.2 | | | | | | protection circuit |
| SI-3052P | | | | | 5 ± 0.1 | | ±0.5 | 2 | 40 | | |
| SI-3122P | 45 | 2.0 | 50 | -20 to +80 | 12 ± 0.2 | 3.0 | ±1.5 | 10 | 80 | 60 | Built-in overcurrent protection circuit |
| SI-3152P | | | | | 15 ± 0.2 | | | | | | |
| SI-3242P | | | | | 24 ± 0.2 | | ±2.5 | 25 | 120 | | |
| STR9005 | 25 | | | | 5 ± 0.1 | | ±0.5 | 10 | 40 | | Low power dissipation Built-in overcurrent protection Output ON/OFF control and fine-adjustment of output voltage |
| STR9012 | 30 | 4.0 | 75 | -20 to +100 | 12 ± 0.2 | 1.0 | | 30 | 80 | 54 | |
| STR9015 | 30 | | | ($T_C$) | 15 ± 0.2 | | ±1.5 | 50 | 100 | | |

Sanken power multi-chip modules (PMCMs) are available from Allegro MicroSystems.
Contact local representative for additional information.