

## Descriptions

This series of fixed-voltage monolithic integrated-circuit voltage regulators is designed for a wide range of applications. These applications include on-card regulation for elimination of Noise and distribution problems associated with single-point regulation. In addition, they can be used with power-pass elements to make high-current voltage regulators. Each of these regulators can deliver up to 100mA of output current.

The internal limiting and thermal shutdown features of these regulators make them essentially immune to overload. When used as a replacement for a Zener diode-resistor combination, an effective improvement in output impedance can be obtained together with lower-bias current.

## Features

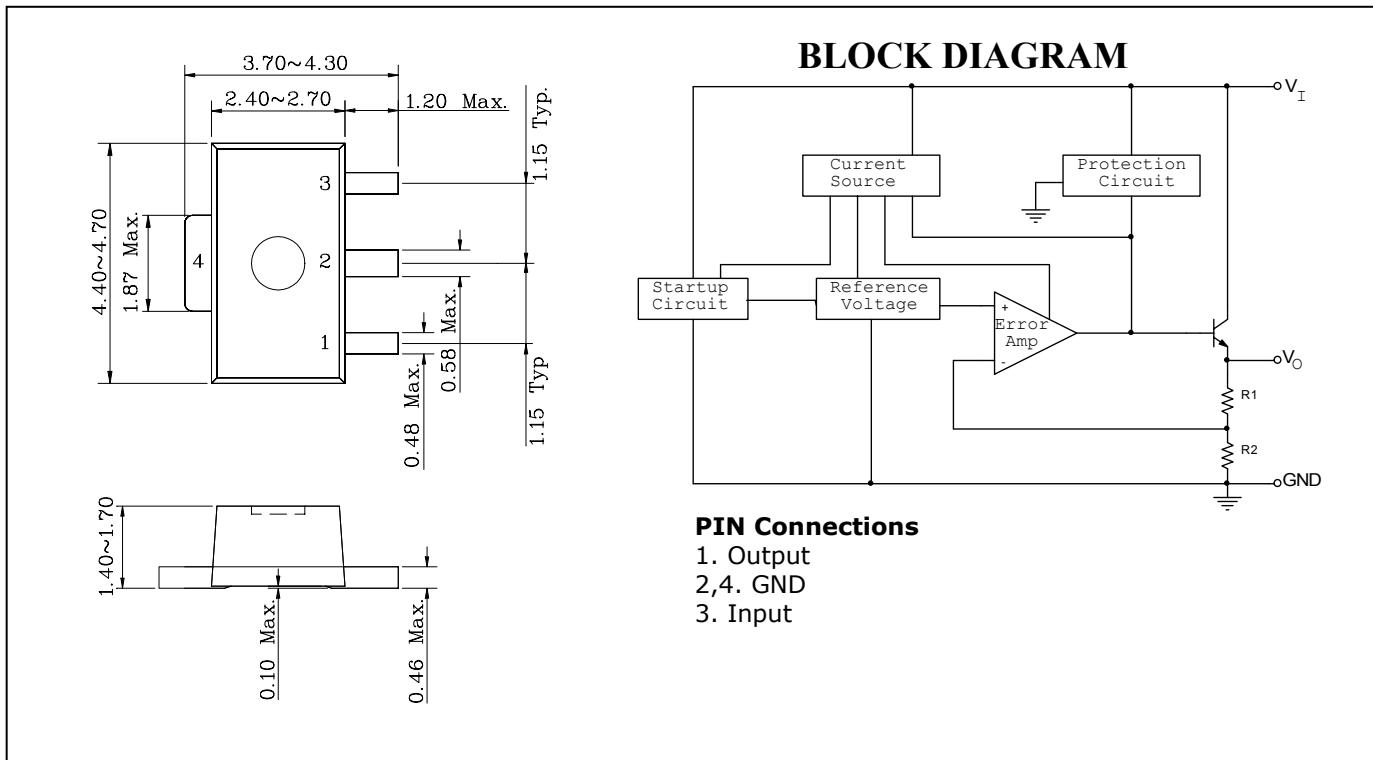
- 3-Terminal Regulators
- Output Current of 100mA
- Thermal Shutdown Protection
- Short-Circuit Limit Protection

## Ordering Information

| Type NO. | Marking | Package Code |
|----------|---------|--------------|
| S78LxxF  | □ □     | SOT-89       |

□: Voltage Code (05:5V, 06:6V, 08:8V, 09:9V, 10:10V, 12:12V, 15:15V, 18:18V, 24:24V)

## Outline Dimensions ( Unit : mm )



**Absolute maximum ratings**

[Ta=25°C]

| Characteristics             | Symbol                      | Rating                     |    | Unit |
|-----------------------------|-----------------------------|----------------------------|----|------|
| Input Voltage               | V <sub>I</sub>              | S78L05F<br>Thru<br>S78L10F | 30 | V    |
|                             |                             | S78L12F<br>Thru<br>S78L18F | 35 |      |
|                             |                             | S78L24F                    | 40 |      |
| Power Dissipation           | P <sub>D</sub> <sup>*</sup> | 500                        |    | mW   |
| Junction Temperature        | T <sub>J</sub>              | 150                        |    | °C   |
| Operating temperature range | T <sub>opr</sub>            | -40 ~ +85                  |    | °C   |
| Storage temperature range   | T <sub>stg</sub>            | -55 ~ +150                 |    | °C   |

\* With PCB(50mm<sup>2</sup> copper area) at glass epoxy board (t=1.7mm, area=50×50mm)

**Device Selection Guide**

| Device  | Output Voltage |
|---------|----------------|
| S78L05F | 5.0V           |
| S78L06F | 6.0V           |
| S78L08F | 8.0V           |
| S78L09F | 9.0V           |
| S78L10F | 10V            |
| S78L12F | 12V            |
| S78L15F | 15V            |
| S78L18F | 18V            |
| S78L24F | 24V            |

## Electrical Characteristics

(Electrical Characteristics at  $V_I=10V$ ,  $I_O=40mA$ ,  $C_I=0.33\ \mu F$ ,  $C_O=0.1\ \mu F$ ,  $0^\circ C \leq T_J \leq 125^\circ C$ , Unless otherwise specified)

| Parameter                | Symbol                       | Test Condition*                          | S78L05F          |      |      | Unit |    |
|--------------------------|------------------------------|--|------------------|------|------|------|----|
|                          |                              |  | Min.             | Typ. | Max. |      |    |
| Output Voltage**         | $V_O$                        | $I_O=1mA \sim 40mA$<br>$V_I=7V \sim 20V$ | $T_J=25^\circ C$ | 4.80 | 5.00 | 5.20 | V  |
|                          |                              | $I_O=1mA \sim 70mA$<br>$V_I=10V$         |                  | 4.75 | -    | 5.25 |    |
|                          |                              | $I_O=1mA \sim 40mA$<br>$V_I=7V \sim 20V$ |                  | 4.75 | -    | 5.25 |    |
| Line Regulation          | $\Delta V_{O(\triangle VI)}$ | $V_I=7V \sim 20V$                        | $T_J=25^\circ C$ | -    | 32   | 150  | mV |
|                          |                              | $V_I=8V \sim 20V$                        |                  | -    | 26   | 100  |    |
| Load Regulation          | $\Delta V_{O(\triangle IL)}$ | $I_O=1mA \sim 100mA$                     | $T_J=25^\circ C$ | -    | 15   | 60   | mV |
|                          |                              | $I_O=1mA \sim 40mA$                      |                  | -    | 8    | 30   |    |
| Quiescent Current        | $I_{QC}$                     |  | $T_J=25^\circ C$ | -    | 3.8  | 6    | mA |
| Quiescent Current Change | $\Delta I_{QC}$              | $V_I=8V \sim 20V$                        |                  | -    | -    | 1.5  | mA |
|                          |                              | $I_O=1mA \sim 40mA$                      |                  | -    | -    | 0.1  |    |
| Dropout Voltage          | $V_{DROP}$                   |  | $T_J=25^\circ C$ | -    | 1.7  | -    | V  |
| Ripple Rejection         | RR                           | $V_I=8V \sim 18V$ , $f=120Hz$            |                  | 41   | 49   | -    | dB |

## Electrical Characteristics

(Electrical Characteristics at  $V_I=11V$ ,  $I_O=40mA$ ,  $C_I=0.33\ \mu F$ ,  $C_O=0.1\ \mu F$ ,  $0^\circ C \leq T_J \leq 125^\circ C$ , Unless otherwise specified)

| Parameter                | Symbol                       | Test Condition*                          | S78L06F          |      |      | Unit |    |
|--------------------------|------------------------------|--|------------------|------|------|------|----|
|                          |                              |  | Min.             | Typ. | Max. |      |    |
| Output Voltage**         | $V_O$                        | $I_O=1mA \sim 40mA$<br>$V_I=8V \sim 20V$ | $T_J=25^\circ C$ | 5.75 | 6.00 | 6.25 | V  |
|                          |                              | $I_O=1mA \sim 70mA$<br>$V_I=11V$         |                  | 5.70 | -    | 6.30 |    |
|                          |                              | $I_O=1mA \sim 40mA$<br>$V_I=9V \sim 20V$ |                  | 5.70 | -    | 6.30 |    |
| Line Regulation          | $\Delta V_{O(\triangle VI)}$ | $V_I=8V \sim 20V$                        | $T_J=25^\circ C$ | -    | 35   | 175  | mV |
|                          |                              | $V_I=9V \sim 20V$                        |                  | -    | 29   | 125  |    |
| Load Regulation          | $\Delta V_{O(\triangle IL)}$ | $I_O=1mA \sim 100mA$                     | $T_J=25^\circ C$ | -    | 16   | 80   | mV |
|                          |                              | $I_O=1mA \sim 40mA$                      |                  | -    | 9    | 40   |    |
| Quiescent Current        | $I_{QC}$                     |  | $T_J=25^\circ C$ | -    | 3.9  | 6    | mA |
| Quiescent Current Change | $\Delta I_{QC}$              | $V_I=9V \sim 20V$                        |                  | -    | -    | 1.5  | mA |
|                          |                              | $I_O=1mA \sim 40mA$                      |                  | -    | -    | 0.1  |    |
| Dropout Voltage          | $V_{DROP}$                   |  | $T_J=25^\circ C$ | -    | 1.7  | -    | V  |
| Ripple Rejection         | RR                           | $V_I=9V \sim 19V$ , $f=120Hz$            |                  | 40   | 48   | -    | dB |

## Electrical Characteristics

(Electrical Characteristics at  $V_I=14V$ ,  $I_O=40mA$ ,  $C_F=0.33\ \mu F$ ,  $C_O=0.1\ \mu F$ ,  $0^\circ C \leq T_j \leq 125^\circ C$ , Unless otherwise specified)

| Parameter                | Symbol                       | Test Condition*                             | S78L08F          |      |      | Unit |    |
|--------------------------|------------------------------|---|------------------|------|------|------|----|
|                          |                              |   | Min.             | Typ. | Max. |      |    |
| Output Voltage**         | $V_O$                        | $I_O=1mA \sim 40mA$<br>$V_I=10.5V \sim 23V$ | $T_j=25^\circ C$ | 7.7  | 8.0  | 8.3  | V  |
|                          |                              | $I_O=1mA \sim 70mA$<br>$V_I=14V$            |                  | 7.6  | -    | 8.4  |    |
|                          |                              | $I_O=1mA \sim 100mA$<br>$V_I=11V \sim 23V$  |                  | 7.6  | -    | 8.4  |    |
| Line Regulation          | $\Delta V_{O(\triangle VI)}$ | $V_I=10.5V \sim 23V$                        | $T_j=25^\circ C$ | -    | 42   | 175  | mV |
|                          |                              | $V_I=11V \sim 23V$                          |                  | -    | 36   | 125  |    |
| Load Regulation          | $\Delta V_{O(\triangle IL)}$ | $I_O=1mA \sim 40mA$                         | $T_j=25^\circ C$ | -    | 18   | 80   | mV |
|                          |                              | $I_O=1mA \sim 100mA$                        |                  | -    | 10   | 40   |    |
| Quiescent Current        | $I_{QC}$                     |   | $T_j=25^\circ C$ | -    | 4    | 6    | mA |
| Quiescent Current Change | $\Delta I_{QC}$              | $V_I=11V \sim 23V$                          |                  | -    | -    | 1.5  | mA |
|                          |                              | $I_O=1mA \sim 40mA$                         |                  | -    | -    | 0.1  |    |
| Dropout Voltage          | $V_{DROP}$                   |   | $T_j=25^\circ C$ | -    | 1.7  | -    | V  |
| Ripple Rejection         | RR                           | $V_I=13V \sim 23V, f=120Hz$                 |                  | 37   | 46   | -    | dB |

## Electrical Characteristics

(Electrical Characteristics at  $V_I=16V$ ,  $I_O=40mA$ ,  $C_F=0.33\ \mu F$ ,  $C_O=0.1\ \mu F$ ,  $0^\circ C \leq T_j \leq 125^\circ C$ , Unless otherwise specified)

| Parameter                | Symbol                       | Test Condition*                            | S78L09F          |      |      | Unit |    |
|--------------------------|------------------------------|--|------------------|------|------|------|----|
|                          |                              |  | Min.             | Typ. | Max. |      |    |
| Output Voltage**         | $V_O$                        | $I_O=1mA \sim 40mA$<br>$V_I=12V \sim 24V$  | $T_j=25^\circ C$ | 8.60 | 9.00 | 9.40 | V  |
|                          |                              | $I_O=1mA \sim 70mA$<br>$V_I=16V$           |                  | 8.55 | -    | 9.45 |    |
|                          |                              | $I_O=1mA \sim 100mA$<br>$V_I=13V \sim 24V$ |                  | 8.55 | -    | 9.45 |    |
| Line Regulation          | $\Delta V_{O(\triangle VI)}$ | $V_I=12V \sim 24V$                         | $T_j=25^\circ C$ | -    | 45   | 175  | mV |
|                          |                              | $V_I=13V \sim 24V$                         |                  | -    | 40   | 125  |    |
| Load Regulation          | $\Delta V_{O(\triangle IL)}$ | $I_O=1mA \sim 40mA$                        | $T_j=25^\circ C$ | -    | 19   | 90   | mV |
|                          |                              | $I_O=1mA \sim 100mA$                       |                  | -    | 11   | 40   |    |
| Quiescent Current        | $I_{QC}$                     |  | $T_j=25^\circ C$ | -    | 4.1  | 6    | mA |
| Quiescent Current Change | $\Delta I_{QC}$              | $V_I=13V \sim 24V$                         |                  | -    | -    | 1.5  | mA |
|                          |                              | $I_O=1mA \sim 40mA$                        |                  | -    | -    | 0.1  |    |
| Dropout Voltage          | $V_{DROP}$                   |  | $T_j=25^\circ C$ | -    | 1.7  | -    | V  |
| Ripple Rejection         | RR                           | $V_I=15V \sim 25V, f=120Hz$                |                  | 38   | 45   | -    | dB |

## Electrical Characteristics

(Electrical Characteristics at  $V_I=17V$ ,  $I_O=40mA$ ,  $C_F=0.33\ \mu F$ ,  $C_O=0.1\ \mu F$ ,  $0^\circ C \leq T_j \leq 125^\circ C$ , Unless otherwise specified)

| Parameter                | Symbol                    | Test Condition*                           | S78L10F          |      |      | Unit |    |
|--------------------------|---------------------------|---|------------------|------|------|------|----|
|                          |                           |   | Min.             | Typ. | Max. |      |    |
| Output Voltage**         | $V_O$                     | $I_O=1mA \sim 40mA$<br>$V_I=13V \sim 25V$ | $T_j=25^\circ C$ | 9.6  | 10.0 | 10.4 | V  |
|                          |                           | $I_O=1mA \sim 70mA$<br>$V_I=17V$          |                  | 9.5  | -    | 10.5 |    |
|                          |                           | $I_O=1mA \sim 40mA$<br>$V_I=13V \sim 25V$ |                  | 9.5  | -    | 10.5 |    |
| Line Regulation          | $\Delta V_{O(\Delta VI)}$ | $V_I=13V \sim 25V$                        | $T_j=25^\circ C$ | -    | 51   | 175  | mV |
|                          |                           | $V_I=14V \sim 25V$                        |                  | -    | 42   | 125  |    |
| Load Regulation          | $\Delta V_{O(\Delta IL)}$ | $I_O=1mA \sim 100mA$                      | $T_j=25^\circ C$ | -    | 20   | 90   | mV |
|                          |                           | $I_O=1mA \sim 40mA$                       |                  | -    | 11   | 40   |    |
| Quiescent Current        | $I_{QC}$                  |   | $T_j=25^\circ C$ | -    | 4.2  | 6    | mA |
| Quiescent Current Change | $\Delta I_{QC}$           | $V_I=14V \sim 25V$                        |                  | -    | -    | 1.5  | mA |
|                          |                           | $I_O=1mA \sim 40mA$                       |                  | -    | -    | 0.1  |    |
| Dropout Voltage          | $V_{DROP}$                |   | $T_j=25^\circ C$ | -    | 1.7  | -    | V  |
| Ripple Rejection         | RR                        | $V_I=15V \sim 25V$ , $f=120Hz$            |                  | 37   | 44   | -    | dB |

## Electrical Characteristics

(Electrical Characteristics at  $V_I=19V$ ,  $I_O=40mA$ ,  $C_F=0.33\ \mu F$ ,  $C_O=0.1\ \mu F$ ,  $0^\circ C \leq T_j \leq 125^\circ C$ , Unless otherwise specified)

| Parameter                | Symbol                    | Test Condition*                             | S78L12F          |      |      | Unit |    |
|--------------------------|---------------------------|---|------------------|------|------|------|----|
|                          |                           |   | Min.             | Typ. | Max. |      |    |
| Output Voltage**         | $V_O$                     | $I_O=1mA \sim 40mA$<br>$V_I=14V \sim 27V$   | $T_j=25^\circ C$ | 11.5 | 12.0 | 12.5 | V  |
|                          |                           | $I_O=1mA \sim 70mA$<br>$V_I=19V$            |                  | 11.4 | -    | 12.5 |    |
|                          |                           | $I_O=1mA \sim 40mA$<br>$V_I=14.5V \sim 27V$ |                  | 11.4 | -    | 12.6 |    |
| Line Regulation          | $\Delta V_{O(\Delta VI)}$ | $V_I=14.5V \sim 27V$                        | $T_j=25^\circ C$ | -    | 55   | 250  | mV |
|                          |                           | $V_I=16V \sim 27V$                          |                  | -    | 49   | 200  |    |
| Load Regulation          | $\Delta V_{O(\Delta IL)}$ | $I_O=1mA \sim 100mA$                        | $T_j=25^\circ C$ | -    | 22   | 100  | mV |
|                          |                           | $I_O=1mA \sim 40mA$                         |                  | -    | 13   | 50   |    |
| Quiescent Current        | $I_{QC}$                  |   | $T_j=25^\circ C$ | -    | 4.3  | 6.5  | mA |
| Quiescent Current Change | $\Delta I_{QC}$           | $V_I=16V \sim 27V$                          |                  | -    | -    | 1.5  | mA |
|                          |                           | $I_O=1mA \sim 40mA$                         |                  | -    | -    | 0.1  |    |
| Dropout Voltage          | $V_{DROP}$                |   | $T_j=25^\circ C$ | -    | 1.7  | -    | V  |
| Ripple Rejection         | RR                        | $V_I=15V \sim 25V$ , $f=120Hz$              |                  | 37   | 42   | -    | dB |

## Electrical Characteristics

(Electrical Characteristics at  $V_I=23V$ ,  $I_O=40mA$ ,  $C_I=0.33 \mu F$ ,  $C_O=0.1 \mu F$ ,  $0^\circ C \leq T_j \leq 125^\circ C$ , Unless otherwise specified)

| Parameter                | Symbol                    | Test Condition*                             | S78L15F          |       |      | Unit  |
|--------------------------|---------------------------|---|------------------|-------|------|-------|
|                          |                           |   | Min.             | Typ.  | Max. |       |
| Output Voltage**         | $V_O$                     |   | $T_j=25^\circ C$ | 14.40 | 15.0 | 15.60 |
|                          |                           | $I_O=1mA \sim 40mA$<br>$V_I=17.5V \sim 30V$ |                  | 14.25 | -    | 15.75 |
|                          |                           | $I_O=1mA \sim 70mA$<br>$V_I=23V$            |                  | 14.25 | -    | 15.75 |
| Line Regulation          | $\Delta V_{O(\Delta VI)}$ | $V_I=17.5V \sim 30V$                        | $T_j=25^\circ C$ | -     | 65   | 300   |
|                          |                           | $V_I=19V \sim 30V$                          |                  | -     | 58   | 250   |
| Load Regulation          | $\Delta V_{O(\Delta IL)}$ | $I_O=1mA \sim 100mA$                        | $T_j=25^\circ C$ | -     | 25   | 150   |
|                          |                           | $I_O=1mA \sim 40mA$                         |                  | -     | 15   | 75    |
| Quiescent Current        | $I_{QC}$                  |   | $T_j=25^\circ C$ | -     | 4.6  | 6.5   |
| Quiescent Current Change | $\Delta I_{QC}$           | $V_I=19V \sim 30V$                          |                  | -     | -    | 1.5   |
|                          |                           | $I_O=1mA \sim 40mA$                         |                  | -     | -    | 0.1   |
| Dropout Voltage          | $V_{DROP}$                |   | $T_j=25^\circ C$ | -     | 1.7  | -     |
| Ripple Rejection         | RR                        | $V_I=18.5V \sim 28.5V$ , $f=120Hz$          |                  | 34    | 39   | -     |
|                          |                           |   |                  |       |      | dB    |

## Electrical Characteristics

(Electrical Characteristics at  $V_I=26V$ ,  $I_O=40mA$ ,  $C_I=0.33 \mu F$ ,  $C_O=0.1 \mu F$ ,  $0^\circ C \leq T_j \leq 125^\circ C$ , Unless otherwise specified)

| Parameter                | Symbol                    | Test Condition*                             | S78L18F          |      |      | Unit |
|--------------------------|---------------------------|---|------------------|------|------|------|
|                          |                           |   | Min.             | Typ. | Max. |      |
| Output Voltage**         | $V_O$                     |   | $T_j=25^\circ C$ | 17.3 | 18.0 | 18.7 |
|                          |                           | $I_O=1mA \sim 40mA$<br>$V_I=20.5V \sim 33V$ |                  | 17.1 | -    | 18.9 |
|                          |                           | $I_O=1mA \sim 70mA$<br>$V_I=26V$            |                  | 17.1 | -    | 18.9 |
| Line Regulation          | $\Delta V_{O(\Delta VI)}$ | $V_I=20.5V \sim 33V$                        | $T_j=25^\circ C$ | -    | 70   | 360  |
|                          |                           | $V_I=22V \sim 33V$                          |                  | -    | 64   | 300  |
| Load Regulation          | $\Delta V_{O(\Delta IL)}$ | $I_O=1mA \sim 100mA$                        | $T_j=25^\circ C$ | -    | 27   | 180  |
|                          |                           | $I_O=1mA \sim 40mA$                         |                  | -    | 19   | 90   |
| Quiescent Current        | $I_{QC}$                  |   | $T_j=25^\circ C$ | -    | 4.7  | 6.5  |
| Quiescent Current Change | $\Delta I_{QC}$           | $V_I=22V \sim 33V$                          |                  | -    | -    | 1.5  |
|                          |                           | $I_O=1mA \sim 40mA$                         |                  | -    | -    | 0.1  |
| Dropout Voltage          | $V_{DROP}$                |   | $T_j=25^\circ C$ | -    | 1.7  | -    |
| Ripple Rejection         | RR                        | $V_I=21.5V \sim 31.5V$ , $f=120Hz$          |                  | 32   | 36   | -    |
|                          |                           |   |                  |      |      | dB   |

## Electrical Characteristics

(Electrical Characteristics at  $V_I=32V$ ,  $I_O=40mA$ ,  $C_I=0.33 \mu F$ ,  $C_O=0.1 \mu F$ ,  $0^\circ C \leq T_j \leq 125^\circ C$ , Unless otherwise specified)

| Parameter                | Symbol                    | Test Condition*                             | S78L24F          |      |      | Unit |    |
|--------------------------|---------------------------|---|------------------|------|------|------|----|
|                          |                           |   | Min.             | Typ. | Max. |      |    |
| Output Voltage**         | $V_O$                     |   | $T_j=25^\circ C$ | 23.0 | 24.0 | 25.0 | V  |
|                          |                           | $I_O=1mA \sim 40mA$<br>$V_I=26.5V \sim 39V$ |                  | 22.8 | -    | 25.2 |    |
|                          |                           | $I_O=1mA \sim 70mA$<br>$V_I=32V$            |                  | 22.8 | -    | 25.2 |    |
| Line Regulation          | $\Delta V_{O(\Delta VI)}$ | $V_I=26.5V \sim 39V$                        | $T_j=25^\circ C$ | -    | 95   | 480  | mV |
|                          |                           | $V_I=29V \sim 39V$                          |                  | -    | 78   | 400  |    |
| Load Regulation          | $\Delta V_{O(\Delta IL)}$ | $I_O=1mA \sim 100mA$                        | $T_j=25^\circ C$ | -    | 41   | 240  | mV |
|                          |                           | $I_O=1mA \sim 40mA$                         |                  | -    | 28   | 120  |    |
| Quiescent Current        | $I_{QC}$                  |   | $T_j=25^\circ C$ | -    | 4.8  | 6.5  | mA |
| Quiescent Current Change | $\Delta I_{QC}$           | $V_I=28V \sim 39V$                          |                  | -    | -    | 1.5  | mA |
|                          |                           | $I_O=1mA \sim 40mA$                         |                  | -    | -    | 0.1  |    |
| Dropout Voltage          | $V_{DROP}$                |   | $T_j=25^\circ C$ | -    | 1.7  | -    | V  |
| Ripple Rejection         | RR                        | $V_I=27.5V \sim 37.5V$ , $f=120Hz$          |                  | 30   | 33   | -    | dB |

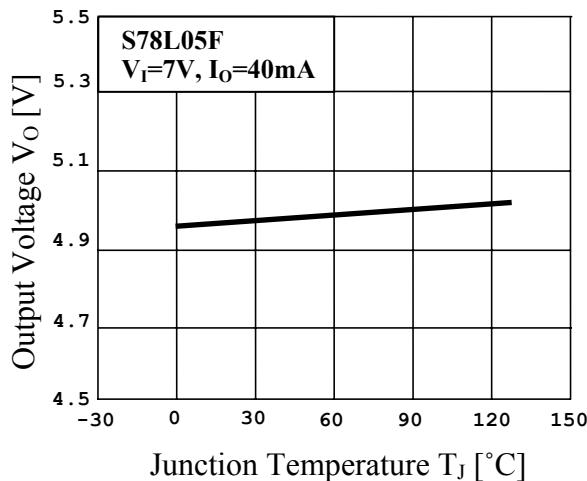
\* Pulse testing techniques are used to maintain the junction temperature as close to the ambient temperature as possible.

Thermal effects must be taken into account separately. All characteristics are measured with a  $0.33 \mu F$  capacitor across the input and a  $0.1 \mu F$  capacitor across the output.

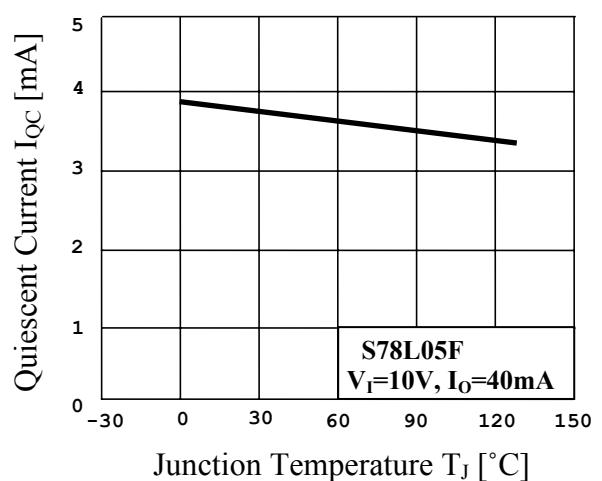
\*\* This specification applies only for dc power dissipation permitted by absolute maximum ratings.

## Electrical Characteristics Curve

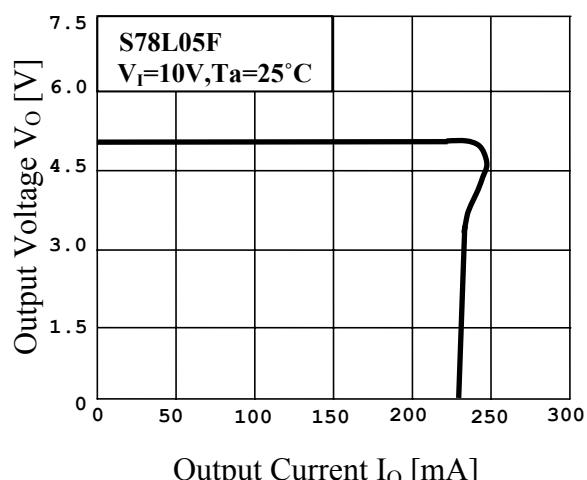
**Fig.1 V<sub>O</sub> vs. T<sub>J</sub>**



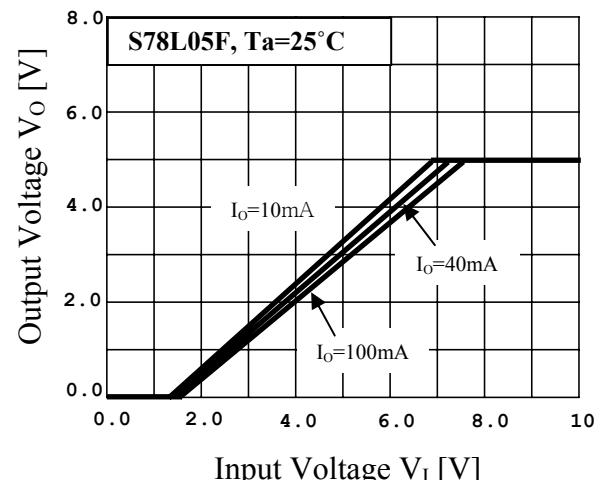
**Fig.2 I<sub>QC</sub> vs. T<sub>J</sub>**



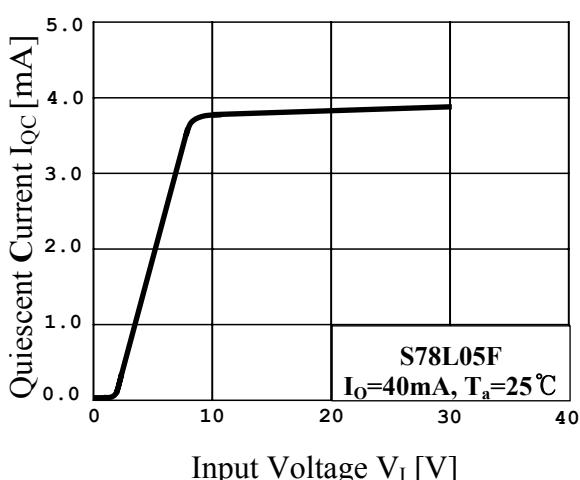
**Fig.3 V<sub>O</sub> vs. I<sub>O</sub>**



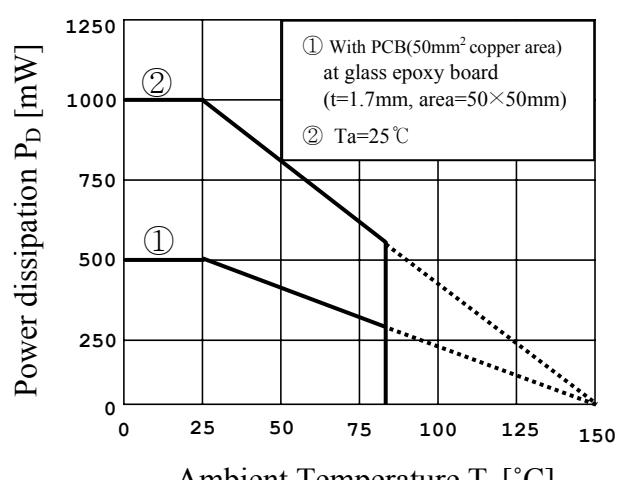
**Fig.4 V<sub>O</sub> vs. V<sub>I</sub>**



**Fig.5 I<sub>QC</sub> vs. V<sub>I</sub>**



**Fig.6 P<sub>D</sub> vs T<sub>a</sub>**



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- Техническая поддержка проекта;
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#### Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: [org@eplast1.ru](mailto:org@eplast1.ru)

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.