

flowSOL 0 BI

600V/18A

**Features**

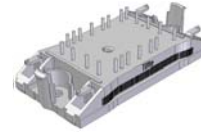
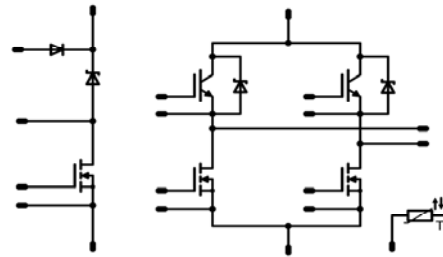
- High efficiency
- Ultra fast switching frequency
- Low inductive design
- SiC in boost and H bridge

**Target Applications**

- Transformerless solar inverters

**Types**

- FZ06BIA099FS

**flow0 housing**

**Schematic**


## Maximum Ratings

 T<sub>j</sub>=25°C, unless otherwise specified

| Parameter | Symbol | Condition | Value | Unit |
|-----------|--------|-----------|-------|------|
|-----------|--------|-----------|-------|------|

**Bypass Diode**

|                                 |                   |                                   |  |          |                  |
|---------------------------------|-------------------|-----------------------------------|--|----------|------------------|
| Repetitive peak reverse voltage | V <sub>RRM</sub>  |                                   | 1600   | V        |                  |
| Forward current per diode       | I <sub>FAV</sub>  | DC current                        | T <sub>h</sub> =80°C<br>T <sub>c</sub> =80°C | 28<br>38 | A                |
| Surge forward current           | I <sub>FSM</sub>  | t <sub>p</sub> =10ms              | T <sub>j</sub> =25°C                         | 220      | A                |
| I <sup>2</sup> t-value          | I <sup>2</sup> t  |                                   |  | 220      | A <sup>2</sup> s |
| Power dissipation per Diode     | P <sub>tot</sub>  | T <sub>j</sub> =T <sub>jmax</sub> | T <sub>h</sub> =80°C<br>T <sub>c</sub> =80°C | 33<br>50 | W                |
| Maximum Junction Temperature    | T <sub>jmax</sub> |                                   |  | 150      | °C               |

**Input Boost MOSFET**

|                                   |                     |   |  |          |    |
|-----------------------------------|---------------------|---|--|----------|----|
| Drain to source breakdown voltage | V <sub>DS</sub>     |   |  | 600      | V  |
| DC drain current                  | I <sub>D</sub>      | T <sub>j</sub> =T <sub>jmax</sub>           | T <sub>h</sub> =80°C<br>T <sub>c</sub> =80°C | 16<br>22 | A  |
| Pulsed drain current              | I <sub>Dpulse</sub> | t <sub>p</sub> limited by T <sub>jmax</sub> |  | 112      | A  |
| Power dissipation                 | P <sub>tot</sub>    | T <sub>j</sub> =T <sub>jmax</sub>           | T <sub>h</sub> =80°C<br>T <sub>c</sub> =80°C | 54<br>96 | W  |
| Gate-source peak voltage          | V <sub>GS</sub>     |   |  | ±20      | V  |
| Maximum Junction Temperature      | T <sub>jmax</sub>   |   |  | 150      | °C |

## Maximum Ratings

 $T_j=25^{\circ}\text{C}$ , unless otherwise specified

| Parameter                       | Symbol     | Condition                   | Value                     | Unit               |   |
|---------------------------------|------------|-----------------------------|---------------------------|--------------------|---|
| <b>Input Boost Diode</b>        |            |                             |                           |                    |   |
| Peak Repetitive Reverse Voltage | $V_{RRM}$  | $T_j=25^{\circ}\text{C}$    | 600                       | V                  |   |
| DC forward current              | $I_F$      | $T_j=T_{jmax}$              | $T_h=80^{\circ}\text{C}$  | 12                 | A |
|                                 |            |                             | $T_c=80^{\circ}\text{C}$  | 17                 |   |
| Repetitive peak forward current | $I_{FRM}$  | $t_p$ limited by $T_{jmax}$ | $T_c=110^{\circ}\text{C}$ | 34                 | A |
| Power dissipation               | $P_{tot}$  | $T_j=T_{jmax}$              | $T_h=80^{\circ}\text{C}$  | 23                 | W |
|                                 |            |                             | $T_c=80^{\circ}\text{C}$  | 41                 |   |
| Maximum Junction Temperature    | $T_{jmax}$ |                             | 175                       | $^{\circ}\text{C}$ |   |

### Buck Diode

|                                 |            |                             |                           |                    |   |
|---------------------------------|------------|-----------------------------|---------------------------|--------------------|---|
| Peak Repetitive Reverse Voltage | $V_{RRM}$  | $T_j=25^{\circ}\text{C}$    | 600                       | V                  |   |
| DC forward current              | $I_F$      | $T_j=T_{jmax}$              | $T_h=80^{\circ}\text{C}$  | 8                  | A |
|                                 |            |                             | $T_c=80^{\circ}\text{C}$  | 11                 |   |
| Repetitive peak forward current | $I_{FRM}$  | $t_p$ limited by $T_{jmax}$ | $T_c=110^{\circ}\text{C}$ | 17                 | A |
| Power dissipation per Diode     | $P_{tot}$  | $T_j=T_{jmax}$              | $T_h=80^{\circ}\text{C}$  | 17                 | W |
|                                 |            |                             | $T_c=80^{\circ}\text{C}$  | 31                 |   |
| Maximum Junction Temperature    | $T_{jmax}$ |                             | 175                       | $^{\circ}\text{C}$ |   |

### Buck MOSFET

|                                   |              |                             |                          |                    |   |
|-----------------------------------|--------------|-----------------------------|--------------------------|--------------------|---|
| Drain to source breakdown voltage | $V_{DS}$     |                             | 600                      | V                  |   |
| DC drain current                  | $I_D$        | $T_j=T_{jmax}$              | $T_h=80^{\circ}\text{C}$ | 16                 | A |
|                                   |              |                             | $T_c=80^{\circ}\text{C}$ | 22                 |   |
| Pulsed drain current              | $I_{Dpulse}$ | $t_p$ limited by $T_{jmax}$ | $T_c=25^{\circ}\text{C}$ | 112                | A |
| Power dissipation                 | $P_{tot}$    | $T_j=T_{jmax}$              | $T_h=80^{\circ}\text{C}$ | 54                 | W |
|                                   |              |                             | $T_c=80^{\circ}\text{C}$ | 96                 |   |
| Gate-source peak voltage          | $V_{GS}$     |                             | $\pm 20$                 | V                  |   |
| Maximum Junction Temperature      | $T_{jmax}$   |                             | 150                      | $^{\circ}\text{C}$ |   |

### Boost IGBT

|                                      |             |                                |                          |                    |   |
|--------------------------------------|-------------|--------------------------------|--------------------------|--------------------|---|
| Collector-emitter break down voltage | $V_{CE}$    |                                | 600                      | V                  |   |
| DC collector current                 | $I_C$       | $T_j=T_{jmax}$                 | $T_h=80^{\circ}\text{C}$ | 22                 | A |
|                                      |             |                                | $T_c=80^{\circ}\text{C}$ | 27                 |   |
| Repetitive peak collector current    | $I_{Cpuls}$ | $t_p$ limited by $T_{jmax}$    |                          | 60                 | A |
| Power dissipation per IGBT           | $P_{tot}$   | $T_j=T_{jmax}$                 | $T_h=80^{\circ}\text{C}$ | 50                 | W |
|                                      |             |                                | $T_c=80^{\circ}\text{C}$ | 75                 |   |
| Gate-emitter peak voltage            | $V_{GE}$    |                                | $\pm 20$                 | V                  |   |
| Short circuit ratings                | $t_{SC}$    | $T_j \leq 150^{\circ}\text{C}$ | 6                        | $\mu\text{s}$      |   |
|                                      | $V_{CC}$    | $V_{GE}=15\text{V}$            | 360                      | V                  |   |
| Maximum Junction Temperature         | $T_{jmax}$  |                                | 175                      | $^{\circ}\text{C}$ |   |

## Maximum Ratings

$T_j=25^{\circ}\text{C}$ , unless otherwise specified

| Parameter | Symbol | Condition | Value | Unit |
|-----------|--------|-----------|-------|------|
|-----------|--------|-----------|-------|------|

### Thermal Properties

|   |                  |  |                                  |                    |
|---|------------------|--|----------------------------------|--------------------|
| Storage temperature                             | $T_{\text{stg}}$ |  | -40...+125                       | $^{\circ}\text{C}$ |
| Operation temperature under switching condition | $T_{\text{op}}$  |  | -40...+( $T_{j\text{max}}$ - 25) | $^{\circ}\text{C}$ |

### Insulation Properties

|                    |                 |                 |          |    |
|--------------------|-----------------|-----------------|----------|----|
| Insulation voltage | $V_{\text{is}}$ | t=2s DC voltage | 4000     | V  |
| Creepage distance  |                 |                 | min 12,7 | mm |
| Clearance          |                 |                 | min 12,7 | mm |

**Characteristic Values**

| Parameter                                     | Symbol          | Conditions   |  |                                  |        |                                       | Value |              |       | Unit       |
|---|-----------------|--|--|----------------------------------|--------|---------------------------------------|-------|--------------|-------|------------|
|   |                 | $V_{GE}[V]$ or $V_{GS}[V]$                                 | $V_r[V]$ or $V_{CE}[V]$ or $V_{DS}[V]$ | $I_c[A]$ or $I_F[A]$ or $I_D[A]$ | $T_j$  | Min                                   | Typ   | Max          |       |            |
| <b>Bypass Diode</b>                           |                 |  |  |                                  |        |                                       |       |              |       |            |
| Forward voltage                               | solar inverte   |  |  |                                  | 10     | $T_j=25^\circ C$<br>$T_j=125^\circ C$ | 0,7   | 1,06<br>0,99 | 1,3   | V          |
| Threshold voltage (for power loss calc. only) | $V_{th}$        |  |  |                                  |        | $T_j=25^\circ C$<br>$T_j=125^\circ C$ |       | 0,90<br>0,75 |       | V          |
| Slope resistance (for power loss calc. only)  | $r_t$           |  |  |                                  |        | $T_j=25^\circ C$<br>$T_j=125^\circ C$ |       | 0,01<br>0,02 |       | $\Omega$   |
| Reverse current                               | $I_r$           |  |  | 1200                             |        | $T_j=25^\circ C$<br>$T_j=125^\circ C$ |       |              | 0,05  | mA         |
| Thermal resistance chip to heatsink per chip  | Z06BIA099       | Thermal grease thickness $\leq$ 50um<br>$\lambda = 1$ W/mK |  |                                  |        |                                       |       | 2,12         |       | K/W        |
| <b>Input Boost MOSFET</b>                     |                 |  |  |                                  |        |                                       |       |              |       |            |
| Static drain to source ON resistance          | $R_{DS(on)}$    |  | 10                                     |                                  | 18     | $T_j=25^\circ C$<br>$T_j=125^\circ C$ |       | 0,09<br>0,2  |       | $\Omega$   |
| Gate threshold voltage                        | $V_{(GS)th}$    | VGS=VDS  |  |                                  | 0,0012 | $T_j=25^\circ C$<br>$T_j=125^\circ C$ | 2,5   | 3            | 3,5   | V          |
| Gate to Source Leakage Current                | $I_{gss}$       |  | 20                                     | 0                                |        | $T_j=25^\circ C$<br>$T_j=125^\circ C$ |       |              | 200   | nA         |
| Zero Gate Voltage Drain Current               | $I_{dss}$       |  | 0                                      | 600                              |        | $T_j=25^\circ C$<br>$T_j=125^\circ C$ |       |              | 25000 | nA         |
| Turn On Delay Time                            | $t_{d(ON)}$     |  |  |                                  |        | $T_j=25^\circ C$<br>$T_j=125^\circ C$ |       | 15           |       | ns         |
| Rise Time                                     | $t_r$           |  |  |                                  |        | $T_j=25^\circ C$<br>$T_j=125^\circ C$ |       | 12           |       |            |
| Turn off delay time                           | $t_{d(OFF)}$    | Rgoff=1,7 $\Omega$<br>Rgon=1,7 $\Omega$                    | 13                                     | 400                              | 18     | $T_j=25^\circ C$<br>$T_j=125^\circ C$ |       | 75           |       |            |
| Fall time                                     | $t_f$           |  |  |                                  |        | $T_j=25^\circ C$<br>$T_j=125^\circ C$ |       | 6            |       |            |
| Turn-on energy loss per pulse                 | $E_{on}$        |  |  |                                  |        | $T_j=25^\circ C$<br>$T_j=125^\circ C$ |       | tbd          |       | mWs        |
| Turn-off energy loss per pulse                | $E_{off}$       |  |  |                                  |        | $T_j=25^\circ C$<br>$T_j=125^\circ C$ |       | tbd          |       |            |
| Total gate charge                             | $Q_g$           |  |  |                                  |        | $T_j=25^\circ C$<br>$T_j=125^\circ C$ |       | 119          |       | nC         |
| Gate to source charge                         | $Q_{gs}$        | Rgon=1,7 $\Omega$  | 10                                     | 480                              | 18     | $T_j=25^\circ C$<br>$T_j=125^\circ C$ |       | 14           |       |            |
| Gate to drain charge                          | $Q_{gd}$        |  |  |                                  |        | $T_j=25^\circ C$<br>$T_j=125^\circ C$ |       | 61           |       |            |
| Input capacitance                             | $C_{iss}$       |  |  |                                  |        |                                       |       | 2660         |       | pF         |
| Output capacitance                            | $C_{oss}$       | f=1MHz   | 0                                      | 100                              |        | $T_j=25^\circ C$                      |       | 154          |       |            |
| Reverse transfer capacitance                  | $C_{rss}$       |  |  |                                  |        |                                       |       | 100          |       |            |
| Thermal resistance chip to heatsink per chip  | $R_{thJH}$      | Thermal grease thickness $\leq$ 50um<br>$\lambda = 1$ W/mK |  |                                  |        |                                       |       | 1,3          |       | K/W        |
| <b>Input Boost Diode</b>                      |                 |  |  |                                  |        |                                       |       |              |       |            |
| Forward voltage                               | $V_F$           |  |  |                                  | 8      | $T_j=25^\circ C$<br>$T_j=150^\circ C$ |       | 1,6<br>1,9   |       | V          |
| Reverse leakage current                       | $I_{rm}$        |  | 10                                     | 480                              | 8      | $T_j=25^\circ C$<br>$T_j=150^\circ C$ |       |              | 400   | $\mu A$    |
| Peak recovery current                         | $I_{RRM}$       |  |  |                                  |        | $T_j=25^\circ C$<br>$T_j=150^\circ C$ |       | tbd          |       | A          |
| Reverse recovery time                         | $t_{rr}$        |  |  |                                  |        | $T_j=25^\circ C$<br>$T_j=150^\circ C$ |       | tbd          |       | ns         |
| Reverse recovery charge                       | $Q_{rr}$        | Rgon=1,7 $\Omega$  | 10                                     | 480                              | 8      | $T_j=25^\circ C$<br>$T_j=150^\circ C$ |       | tbd          |       | $\mu C$    |
| Reverse recovered energy                      | $E_{rec}$       |  |  |                                  |        | $T_j=25^\circ C$<br>$T_j=150^\circ C$ |       | tbd          |       | mWs        |
| Peak rate of fall of recovery current         | $di(rec)max/dt$ |  |  |                                  |        | $T_j=25^\circ C$<br>$T_j=150^\circ C$ |       | tbd          |       | A/ $\mu s$ |
| Thermal resistance chip to heatsink per chip  | $R_{thJH}$      | Thermal grease thickness $\leq$ 50um<br>$\lambda = 1$ W/mK |  |                                  |        |                                       |       | 3,00         |       | K/W        |

**Characteristic Values**

| Parameter                                    | Symbol          | Conditions  |  |                                  |        |                                       | Value |              |       | Unit       |
|--|-----------------|---|--|----------------------------------|--------|---------------------------------------|-------|--------------|-------|------------|
|  |                 | $V_{GE}[V]$ or $V_{GS}[V]$                                    | $V_r[V]$ or $V_{CE}[V]$ or $V_{DS}[V]$ | $I_c[A]$ or $I_F[A]$ or $I_D[A]$ | $T_j$  | Min                                   | Typ   | Max          |       |            |
| <b>Buck Diode</b>                            |                 |   |  |                                  |        |                                       |       |              |       |            |
| Diode forward voltage                        | $V_F$           |   |  |                                  | 4      | $T_j=25^\circ C$<br>$T_j=150^\circ C$ |       | 1,60<br>1,90 |       | V          |
| Peak reverse recovery current                | $I_{RRM}$       |   |  |                                  |        | $T_j=25^\circ C$<br>$T_j=150^\circ C$ |       | tbd          |       | A          |
| Reverse recovery time                        | $t_{rr}$        |   |  |                                  |        | $T_j=25^\circ C$<br>$T_j=150^\circ C$ |       | tbd          |       | ns         |
| Reverse recovered charge                     | $Q_{rr}$        | Rgon=1,7 $\Omega$   | 10                                     | 480                              | 4      | $T_j=25^\circ C$<br>$T_j=150^\circ C$ |       | tbd          |       | $\mu C$    |
| Peak rate of fall of recovery current        | $di(rec)max/dt$ |   |  |                                  |        | $T_j=25^\circ C$<br>$T_j=150^\circ C$ |       | tbd          |       | A/ $\mu s$ |
| Reverse recovered energy                     | Erec            |   |  |                                  |        | $T_j=25^\circ C$<br>$T_j=150^\circ C$ |       | tbd          |       | mWs        |
| Thermal resistance chip to heatsink per chip | $R_{thJH}$      | Thermal grease thickness $\leq 50\mu m$<br>$\lambda = 1 W/mK$ |  |                                  |        |                                       |       | 4            |       | K/W        |
| <b>Buck MOSFET</b>                           |                 |   |  |                                  |        |                                       |       |              |       |            |
| Static drain to source ON resistance         | $R_{ds(on)}$    |   | 10                                     |                                  | 18     | $T_j=25^\circ C$<br>$T_j=125^\circ C$ |       | 90<br>200    |       | m $\Omega$ |
| Gate threshold voltage                       | $V_{(GS)th}$    |   |  | $V_{DS}=V_{GS}$                  | 0,0012 | $T_j=25^\circ C$<br>$T_j=125^\circ C$ | 2,5   | 3            | 3,5   | V          |
| Gate to Source Leakage Current               | $I_{gss}$       |   | 20                                     | 0                                |        | $T_j=25^\circ C$<br>$T_j=125^\circ C$ |       |              | 200   | nA         |
| Zero Gate Voltage Drain Current              | $I_{dss}$       |   | 0                                      | 600                              |        | $T_j=25^\circ C$<br>$T_j=125^\circ C$ |       |              | 25000 | nA         |
| Turn On Delay Time                           | $t_{d(ON)}$     |   |  |                                  |        | $T_j=25^\circ C$<br>$T_j=125^\circ C$ |       | 15           |       | ns         |
| Rise Time                                    | $t_r$           |   |  |                                  |        | $T_j=25^\circ C$<br>$T_j=125^\circ C$ |       | 12           |       |            |
| Turn off delay time                          | $t_{d(OFF)}$    | Rgoff=1,7 $\Omega$<br>Rgon=1,7 $\Omega$                       | 13                                     | 400                              | 18     | $T_j=25^\circ C$<br>$T_j=125^\circ C$ |       | 75           |       |            |
| Fall time                                    | $t_f$           |   |  |                                  |        | $T_j=25^\circ C$<br>$T_j=125^\circ C$ |       | 6            |       |            |
| Turn-on energy loss per pulse                | $E_{on}$        |   |  |                                  |        | $T_j=25^\circ C$<br>$T_j=125^\circ C$ |       | tbd          |       | mWs        |
| Turn-off energy loss per pulse               | $E_{off}$       |   |  |                                  |        | $T_j=25^\circ C$<br>$T_j=125^\circ C$ |       | tbd          |       |            |
| Total gate charge                            | $Q_g$           |   |  |                                  |        |                                       |       | 119          |       | nC         |
| Gate to source charge                        | $Q_{gs}$        |   | 10                                     | 480                              | 18     | $T_j=25^\circ C$                      |       | 14           |       |            |
| Gate to drain charge                         | $Q_{gd}$        |   |  |                                  |        |                                       |       | 61           |       |            |
| Input capacitance                            | $C_{iss}$       |   |  |                                  |        |                                       |       | 2660         |       | pF         |
| Output capacitance                           | $C_{oss}$       | f=1MHz  | 0                                      | 100                              |        | $T_j=25^\circ C$                      |       | 154          |       |            |
| Reverse transfer capacitance                 | $C_{rss}$       |   |  |                                  |        |                                       |       | 100          |       |            |
| Thermal resistance chip to heatsink per chip | $R_{thJH}$      | Thermal grease thickness $\leq 50\mu m$<br>$\lambda = 1 W/mK$ |  |                                  |        |                                       |       | 1,30         |       | K/W        |

**Characteristic Values**

| Parameter | Symbol | Conditions                 |  |                                  |       |     | Value |     |  | Unit |
|-----------|--------|----------------------------|--|----------------------------------|-------|-----|-------|-----|--|------|
|           |        | $V_{GE}[V]$ or $V_{GS}[V]$ | $V_r[V]$ or $V_{CE}[V]$ or $V_{DS}[V]$ | $I_c[A]$ or $I_F[A]$ or $I_D[A]$ | $T_j$ | Min | Typ   | Max |  |      |

**Boost IGBT**

|  |               |   |    |     |        |   |   |              |      |          |
|--|---------------|---|----|-----|--------|---|---|--------------|------|----------|
| Gate emitter threshold voltage               | $V_{GE(th)}$  | $V_{CE}=V_{GE}$   |    |     | 0,0029 | $T_j=25^{\circ}C$<br>$T_j=150^{\circ}C$ | 5 | 5,8          | 6,5  | V        |
| Collector-emitter saturation voltage         | $V_{CE(sat)}$ |   | 15 |     | 7      | $T_j=25^{\circ}C$<br>$T_j=150^{\circ}C$ |   | 1,20<br>1,25 |      | V        |
| Collector-emitter cut-off incl diode         | $I_{CES}$     |   | 0  | 600 |        | $T_j=25^{\circ}C$<br>$T_j=150^{\circ}C$ |   |              | 0,14 | mA       |
| Gate-emitter leakage current                 | $I_{GES}$     |   | 20 | 0   |        | $T_j=25^{\circ}C$<br>$T_j=150^{\circ}C$ |   |              | 350  | nA       |
| Integrated Gate resistor                     | $R_{gint}$    |   |    |     |        |   |   | none         |      | $\Omega$ |
| Input capacitance                            | $C_{ies}$     | f=1MHz  | 0  | 25  |        | $T_j=25^{\circ}C$                       |   | 1100         |      | pF       |
| Output capacitance                           | $C_{oss}$     |   |    |     |        |   |   | 71           |      |          |
| Reverse transfer capacitance                 | $C_{rss}$     |   |    |     |        |   |   | 32           |      |          |
| Gate charge                                  | $Q_{Gate}$    |   | 15 | 480 | 20     | $T_j=25^{\circ}C$                       |   | 120          |      | nC       |
| Thermal resistance chip to heatsink per chip | $R_{thJH}$    | Thermal grease thickness $\leq 50\mu m$<br>$\lambda = 1 W/mK$ |    |     |        |   |   | 1,92         |      | K/W      |

 Note: For the **Boost IGBT** only LF switching allowed

**Thermistor**

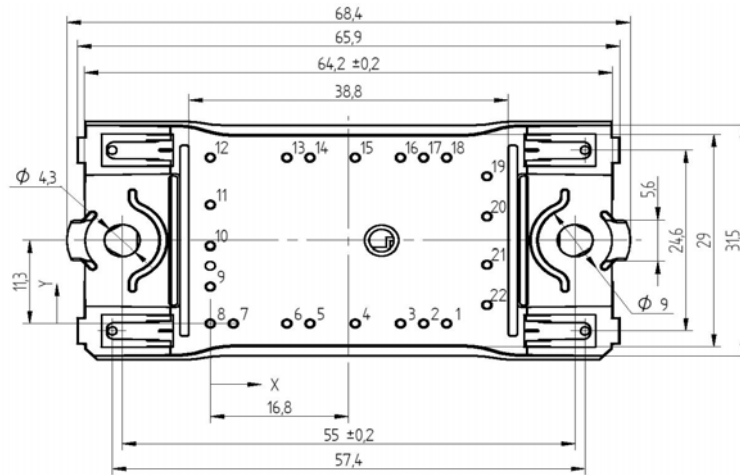
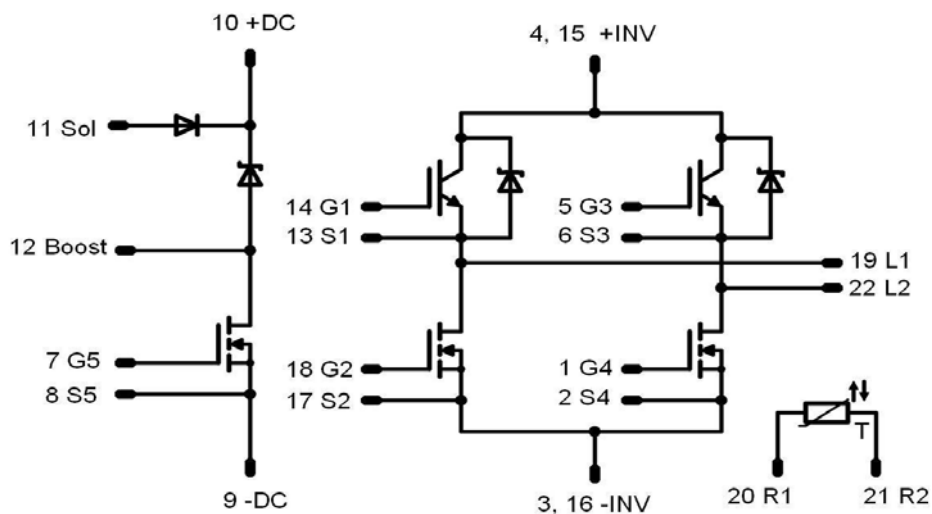
|                   |                |                |  |  |  |                    |      |      |      |            |
|-------------------|----------------|----------------|--|--|--|--------------------|------|------|------|------------|
| Rated resistance* | $R_{25}$       | Tol. $\pm 5\%$ |  |  |  | $T_j=25^{\circ}C$  | 20,9 | 22   | 23,1 | k $\Omega$ |
|                   | $R_{100}$      |                |  |  |  | $T_j=100^{\circ}C$ |      | 1486 |      | $\Omega$   |
| Power dissipation | P              |                |  |  |  | $T_j=25^{\circ}C$  |      | 200  |      | mW         |
| B-value           | $B_{(25/100)}$ | Tol. $\pm 3\%$ |  |  |  | $T_j=25^{\circ}C$  |      | 3998 |      | K          |

**Ordering Code and Marking - Outline - Pinout**
**Ordering Code & Marking**

|                                    | Ordering Code         | in DataMatrix as | in packaging barcode as |
|------------------------------------|-----------------------|------------------|-------------------------|
| without thermal paste 12mm housing | 10-FZ06BIA099FS-P893E | P893E            | P893E                   |

**Outline**

| Pin table |      |       |
|-----------|------|-------|
| Pin       | X    | Y     |
| 1         | 28,7 | 0     |
| 2         | 25,9 | 0     |
| 3         | 23,1 | 0     |
| 4         | 17,6 | 0     |
| 5         | 12,1 | 0     |
| 6         | 9,3  | 0     |
| 7         | 2,8  | 0     |
| 8         | 0    | 0     |
| 9         | 0    | 5,05  |
| 10        | 0    | 10,55 |
| 11        | 0    | 16,15 |
| 12        | 0    | 22,6  |
| 13        | 9,3  | 22,6  |
| 14        | 12,1 | 22,6  |
| 15        | 17,6 | 22,6  |
| 16        | 23,1 | 22,6  |
| 17        | 25,9 | 22,6  |
| 18        | 28,7 | 22,6  |
| 19        | 33,6 | 20,05 |
| 20        | 33,6 | 14,55 |
| 21        | 33,6 | 8,05  |
| 22        | 33,6 | 2,55  |


**Pinout**


**PRODUCT STATUS DEFINITIONS**

| Datasheet Status | Product Status         | Definition   |
|------------------|------------------------|--|
| Target           | Formative or In Design | This datasheet contains the design specifications for product development. Specifications may change in any manner without notice. The data contained is exclusively intended for technically trained staff.   |
| Preliminary      | First Production       | This datasheet contains preliminary data, and supplementary data may be published at a later date. Vincotech reserves the right to make changes at any time without notice in order to improve design. The data contained is exclusively intended for technically trained staff. |
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**LIFE SUPPORT POLICY**

Vincotech products are not authorised for use as critical components in life support devices or systems without the express written approval of Vincotech.

As used herein: • FZ06BIA099FS

1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, or (c) whose failure to perform when properly used in accordance with instructions for use provided in labelling can be reasonably expected to result in significant injury to the user.
2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.