



## JST08F-1200BW 8A TRIAC

Rev.A.1.1

### DESCRIPTION:

The JST08F-1200BW triac is suitable for general purpose AC switching. It can be used as an ON/OFF function in applications such as heating regulation, etc.



|  |             |     |    |
|--|-------------|-----|----|
| Average gate power dissipation ( $T_j=125$ )                       | $P_{G(AV)}$ | 0.5 | W  |
| Peak gate power  | $P_{GM}$    | 10  | W  |
| Peak pulse voltage<br>( $T_j=25$ ; non-repetitive,off-state;FIG.7) | $V_{pp}$    | 2.5 | kV |

**ELECTRICAL CHARACTERISTICS** ( $T_j=25$  unless otherwise specified)

| Symbol    | Test Condition                            | Quadrant | Value |     | Unit       |
|-----------|---|----------|-------|-----|------------|
| $I_{GT}$  | $V_D=12V R_L=33$                          | - -      | MAX.  | 50  | mA         |
| $V_{GT}$  |   | - -      | MAX.  | 1   | V          |
| $V_{GD}$  | $V_D=V_{DRM} T_j=125$<br>$R_L=3.3k$       | - -      | MIN.  | 0.2 | V          |
| $I_L$     | $I_G=1.2I_{GT}$                           | -        | MAX.  | 50  | mA         |
|           |   |          |       | 90  |            |
| $I_H$     | $I_T=100mA$                               |          | MAX.  | 50  | mA         |
| dV/dt     | $V_D=800V$ Gate Open $T_j=125$            |          | MIN.  | 500 | V/ $\mu s$ |
| (dI/dt)c  | (dV/dt)c=20V/ $\mu s$ , $T_j=125$         |          | MIN.  | 12  | A/ms       |
| $t_{on}$  | $I_G=80mA I_A=400mA I_R=40mA$<br>$T_j=25$ |          | TYP.  | 5   | $\mu s$    |
| $t_{off}$ |   |          |       | 50  |            |

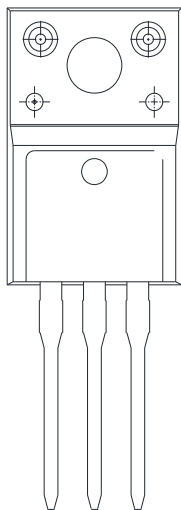
**STATIC CHARACTERISTICS**

| Symbol | Parameter | Value(MAX.) |
|--------|-----------|-------------|
|--------|-----------|-------------|

## ORDERING INFORMATION

|                                   |           |                 |                |   |                  |
|-----------------------------------|-----------|-----------------|----------------|---|------------------|
| <b>J</b>                          | <b>ST</b> | <b>08</b>       | <b>F</b>       | <b>-1200</b>                                    | <b>BW</b>        |
| JieJie Microelectronics Co., Ltd. | Triacs    | $I_{T(RMS)}:8A$ | F:TO-220F(Ins) |   | BW:IGT1-3 0.50mA |
|                                   |           |                 |                | 1200:V <sub>DRM</sub> /V <sub>RRM</sub> 1 1200V |                  |

## MARKING





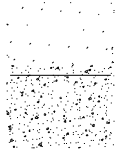




**ORDERING INFORMATION**

| <b>Order code</b> | <b>Voltage<br/><math>V_{DRM}/V</math></b> |
|-------------------|---|
|-------------------|---|

**PACKAGE MECHANICAL DATA**



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