



## JST01UR-800SW 1A TRIAC

Rev.A.2.1

The JST01UR-800SW triac is suitable for general purpose AC switching. It can be used as an ON/OFF function in applications such as heating regulation, induction motor starting circuits, for phase control operation in light dimmers, motor speed controllers. JST01UR-800SW snubberless triac is especially recommended for use on inductive loads. It can be driven directly through the MCU I/O port. Package TO-92UR is RoHS compliant.

| Parameter                                                                                               | Symbol       | Value   | Unit |
|---------------------------------------------------------------------------------------------------------|--------------|---------|------|
| Storage junction temperature range                                                                      | $T_{stg}$    | -40-150 |      |
| Operating junction temperature range                                                                    | $T_j$        | -40-125 |      |
| Repetitive peak off-state voltage ( $T_j=25^\circ\text{C}$ )                                            | $V_{DRM}$    | 800     | V    |
| Repetitive peak reverse voltage ( $T_j=25^\circ\text{C}$ )                                              | $V_{RRM}$    | 800     | V    |
| RMS on-state current ( $T_c=45^\circ\text{C}$ )                                                         | $I_{T(RMS)}$ | 1       | A    |
| Non repetitive surge peak on-state current<br>(full cycle, $t_p=20\text{ms}$ , $T_j=25^\circ\text{C}$ ) | $I_{Te}$     |         |      |



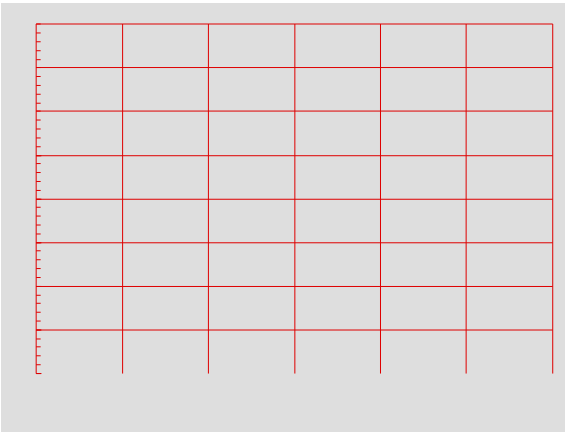
|                                                                             |                 |   |    |
|-----------------------------------------------------------------------------|-----------------|---|----|
| Peak pulse voltage<br>(T <sub>j</sub> =25 ; non-repetitive,off-state;FIG.7) | V <sub>pp</sub> | 4 | kV |
|-----------------------------------------------------------------------------|-----------------|---|----|

(T<sub>j</sub>=25





**FIG.1:** Maximum power dissipation versus RMS on-state current



**FIG.2:** RMS on-state current versus case temperature

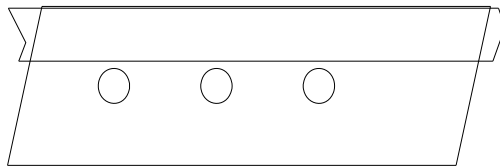








| PACKAGE | OUTLINE   | BAG (PCS) | INNER BOX (PCS) | CARTON BOX (PCS) |
|---------|-----------|-----------|-----------------|------------------|
| TO-92UR | Bulk Pack | 1,000     | 10,000          | 50,000           |



| Ref.  | Dimensions  |       |       |        |       |       |
|-------|-------------|-------|-------|--------|-------|-------|
|       | Millimeters |       |       | Inches |       |       |
|       | Min.        | Typ.  | Max.  | Min.   | Typ.  | Max.  |
| P     | 12.40       | 12.70 | 13.00 | 0.488  | 0.500 | 0.512 |
| P0    | 12.40       | 12.70 | 13.00 | 0.488  | 0.500 | 0.512 |
| P1    | 3.55        | 3.85  | 4.15  | 0.140  | 0.152 | 0.163 |
| P2    | 5.95        | 6.35  | 6.75  | 0.233  | 0.250 | 0.265 |
| P     | -1.00       | 0     | 1.00  | -0.039 | 0     | 0.039 |
| F1 F2 | 2.30        | 2.50  | 2.70  | 0.090  | 0.098 | 0.106 |
| F1-F2 | -0.10       | 0     | 0.10  | -0.004 | 0     | 0.004 |
| W     | 17.50       | 18.00 | 19.00 | 0.689  | 0.709 | 0.748 |
| W0    | 5.50        | 6.00  | 6.50  | 0.217  | 0.236 | 0.256 |
| W1    | 8.50        | 9.00  | 9.50  | 0.335  | 0.354 | 0.374 |
| W2    |             |       | 1.00  |        |       | 0.039 |
| D0    | 3.80        | 4.00  | 4.20  | 0.150  | 0.157 | 0.165 |
| H     | -1.00       | 0     | 1.00  | -0.039 | 0     | 0.039 |
| L1    | 2.50        |       |       | 0.098  |       |       |
| H     | 18.00       | 19.00 | 20.00 | 0.709  | 0.748 | 0.787 |
| H1 H2 |             |       | 3.00  |        |       | 0.119 |
|       |             |       |       |        |       |       |



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