

## DESCRIPTION:

The JST06A-800B 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. By using an internal ceramic pad, JST06A-800B provides a rated insulation voltage of 2500 VRMS, complying with UL standards (File ref: E252906). Package TO-220A is RoHS compliant.

## MAIN FEATURES

## ABSOLUTE MAXIMUM RATINGS

| 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 ( $T_c 0100^\circ\text{C}$ )            | $I_{T(RMS)}$ | 6       | A    |

Non repetitive surge peak on-state current  $I_{TSM}$  17A ( $t \leq 10ms$ )



ORDERING INFORMATION

|                                   |           |               |                |                       |                             |
|-----------------------------------|-----------|---------------|----------------|-----------------------|-----------------------------|
| <b>J</b>                          | <b>ST</b> | <b>06</b>     | <b>A</b>       | <b>-800</b>           | <b>B</b>                    |
| JieJie Microelectronics Co., Ltd. | Triacs    | $I_T(RMS):6A$ | A:TO-220A(Ins) | 800:VDRM /VRRM 1800 V | B:IGT1-3 050 mA IGT4 070 mA |

MARKING

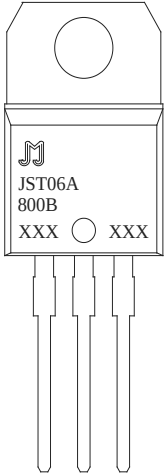
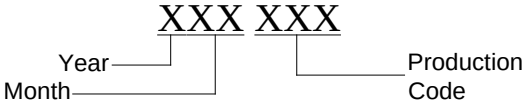
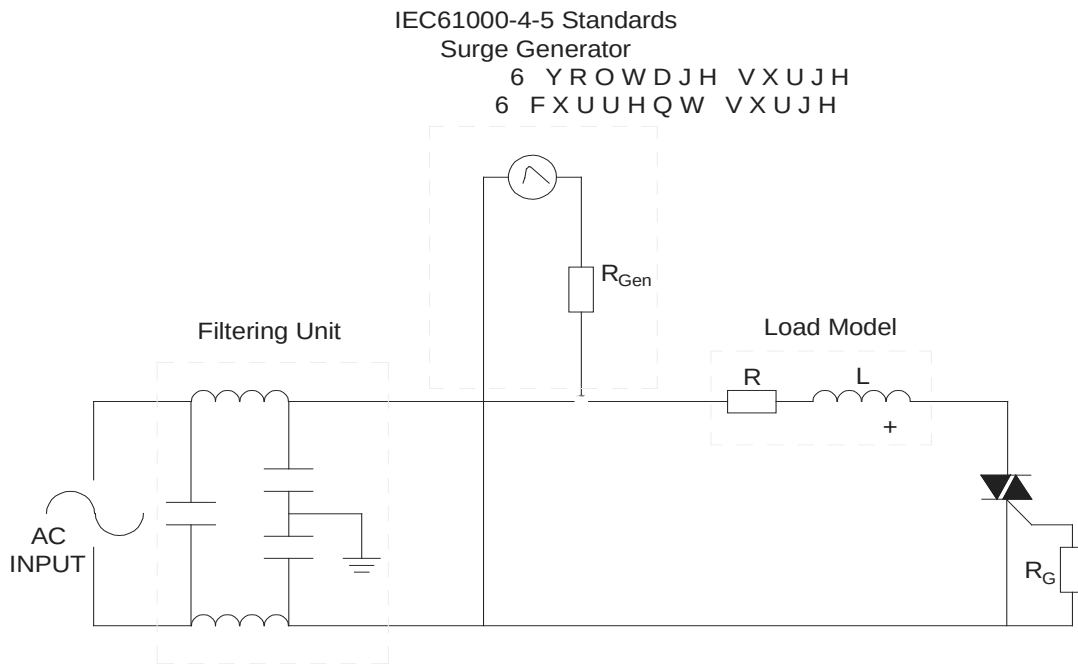
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|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|

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

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

FIG.7 ÖTest circuit for inductive and resistive loads to IEC-61000-4-5 standards



ORDERING INFORMATION

| Order code | Voltage<br>V <sub>DRM</sub> /V <sub>RRM</sub> (V) | IGT(mA) | Package | Base qty.<br>(pcs) |  |
|------------|---------------------------------------------------|---------|---------|--------------------|--|
|            |                                                   |         |         |                    |  |



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