



## JST16A-600BW 16A TRIAC

Rev.A.1.2

### DESCRIPTION:

The JST16- 600BW triac is suitable for

switching AC loads at 16A, 600V, 50/60Hz.

It has a high thermal conductivity and is suitable for

mounting on a heat sink.

JST16- 600BW is a 16A, 600V, 50/60Hz, 16A TRIAC.

It is suitable for switching AC loads at 16A, 600V, 50/60Hz.

JST16- 600BW is a 16A, 600V, 50/60Hz, 16A TRIAC.

VRMS, 16A, 600V, 50/60Hz, 16A TRIAC.

Package: -220 pin DIP

### MAIN FEATURES

### ABSOLUTE MAXIMUM RATINGS

| Parameter                                                                       | Symbol     | Value   | Unit |
|---------------------------------------------------------------------------------|------------|---------|------|
| Storage temperature                                                             | $T_{stg}$  | -40-150 | °C   |
| Operating temperature                                                           | $T_j$      | -40-125 | °C   |
| Repetitive peak off-state voltage (T <sub>j</sub> = 25 °C)                      | $V_{DRM}$  | 600     | V    |
| Repetitive peak on-state voltage (T <sub>j</sub> = 25 °C)                       | $V_{RRM}$  | 600     | V    |
| RMS on-state current (T <sub>j</sub> = 102 °C)                                  | $I_T(RMS)$ | 16      | A    |
| Non-repetitive peak on-state current (fluorescent lamp, t <sub>p</sub> = 25 ms) | $I_{TSM}$  | 160     | A    |
| No gate current (fluorescent lamp, t <sub>p</sub> = 25 ms)                      |            |         |      |

|                                                             |          |    |   |
|-------------------------------------------------------------|----------|----|---|
| $P_{a\ k\ at\ w}$                                           | $P_{GM}$ | 10 | W |
| $P_{a\ k\ at\ w}$<br>( $T_j=25$ ; $f=100\ kHz$ ; $F=10.7$ ) | V        | 4  |   |

k

**ELECTRICAL CHARACTERISTICS** ( $T_j=25$  u

| Symbol   | Test Condii                                          | Qdrant | Value |    | Uni |
|----------|------------------------------------------------------|--------|-------|----|-----|
| $I_T$    | $V_D = 12V\ R_L = 33\Omega$                          | - -    | MX .  | 50 | m   |
| $V_{GT}$ |                                                      | - -    | MX .  | 1  | V   |
| $V_{GD}$ | $V_D = V_{DRM}\ T_j = 125$<br>$R_L = 3.3\ \Omega\ k$ | - -    | MIN.  | 0  | V   |

ORDERING INFORMATION

|                                   |             |            |  |                                           |             |
|-----------------------------------|-------------|------------|--|-------------------------------------------|-------------|
| J                                 | ST          | 16         |  | -600                                      | BW          |
| JieJie Microelectronics Co., Ltd. | Triac       | 16         |  |                                           | n           |
|                                   | Tr(RMS): 16 |            |  |                                           |             |
|                                   |             | TO-220 (1) |  |                                           | BW: 1-3 50m |
|                                   |             |            |  | 600V <sub>VRM</sub> / 600V <sub>VRM</sub> |             |

MARKING

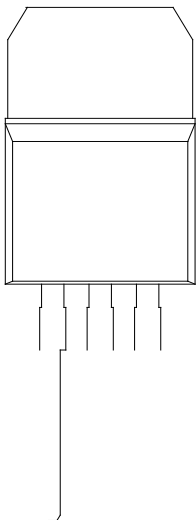


FIG.1: Maximum  
output current

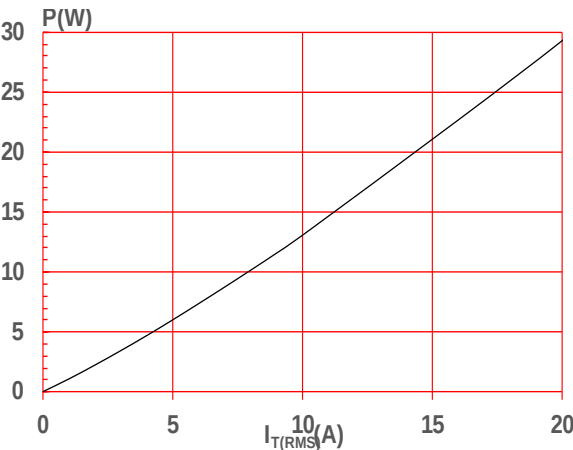


FIG.3: Single  
pulse current

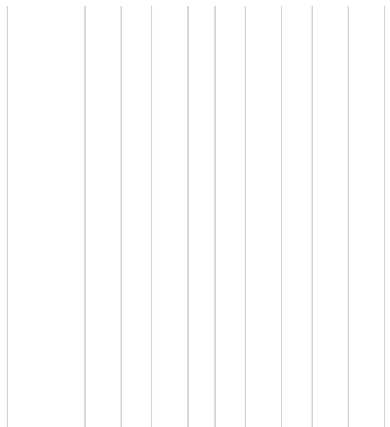


FIG.2: RMS output current  
vs. Junction temperature

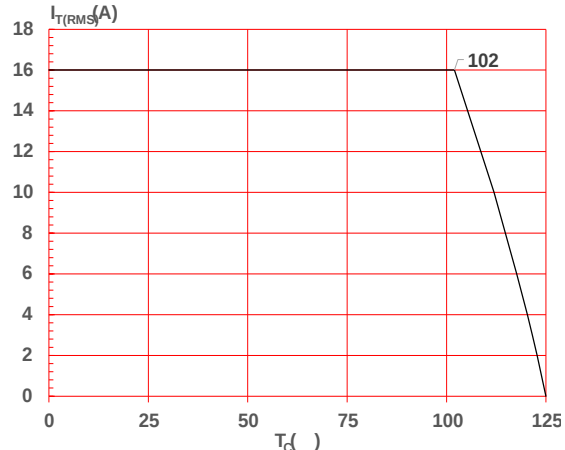
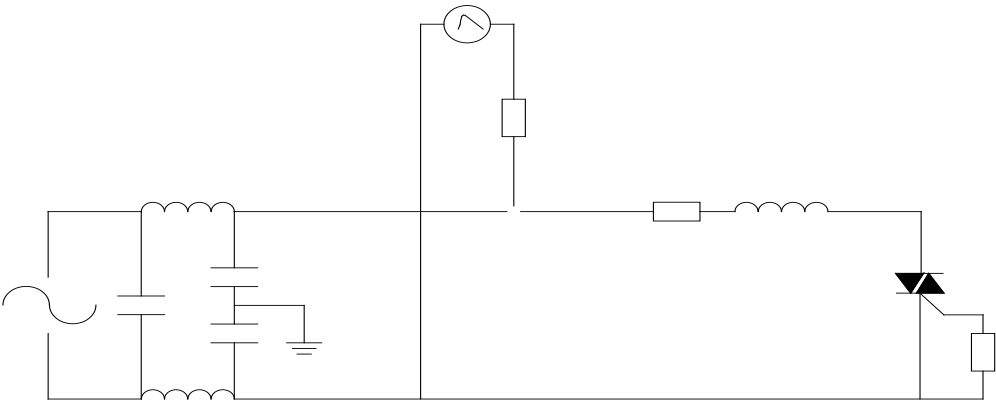


FIG.4: Output characteristic  
vs. Junction temperature

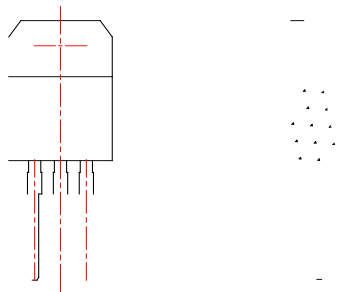
FIG.7 Test circuit

-61000-4-5 a



**JST16A-600BW**

PACKAGE MECHANICAL DATA



I n  
Jia n  
ó s i n t o c o n  
i n  
\$ g n  
P u c s a n  
Jia n  
w i a y h f o n t h e s ó s c u h c s i This o c m  
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 i s a g i t a d e r k ó Jia C n  
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