



JST131W-600E 1A TRIAC

Rev.A.1.1

DESCRIPTION:

The JST131W-600E triac is a stable general purpose AC switching device. It can be used as an ON/OFF switch in a wide range of applications. It is suitable for switching AC loads with a maximum RMS current of 1A. The device is packaged in a SOT-223-2L package.

MAIN FEATURES

ABSOLUTE MAXIMUM RATINGS

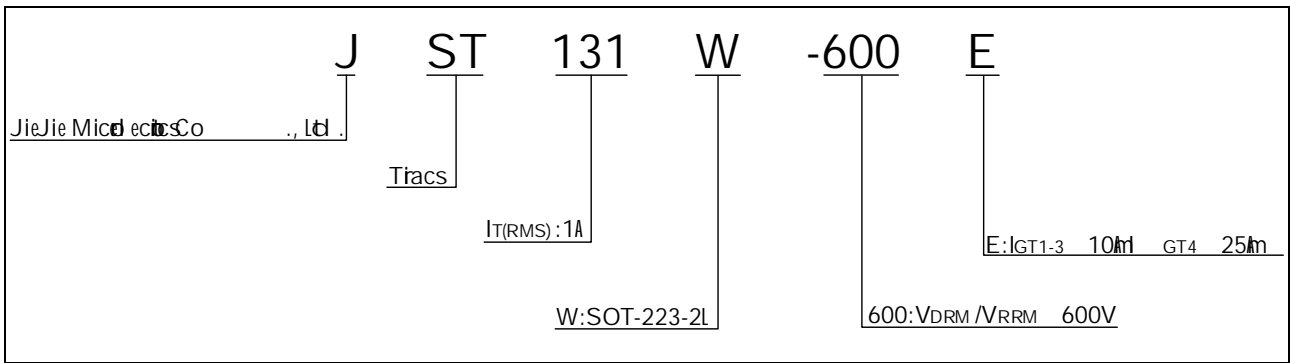
| Parameter | Symbol | Value | Unit |
|---|--------------|---------|------|
| Storage temperature range | T_s | -40-150 | |
| Operating temperature range | T_j | -40-125 | |
| Reverse peak voltage (T _j =25 °C) | V_{DRM} | 600 | V |
| Reverse peak voltage (T _j =25 °C) | V_{RRM} | 600 | V |
| RMS on-state current (T _c =98 °C) | $I_{T(RMS)}$ | 1 | A |
| Non-repetitive peak current (full cycle, t _p =20ms, T _j =25 °C) | I_{TSM} | 16.5 | A |

ELECTRICAL CHARACTERISTICS (Specified)

| Symbol | Test Condition | Quadrant | Value | | Unit |
|-----------------|--|----------|-------|-----|------|
| I _{GT} | V _D =12V R _L =33 | - - | MAX . | 10 | A |
| | | | | 25 | |
| V _{GT} | | ALL | MAX . | 1.3 | V |
| V _{GD} | V _D =V _{DRM} T _j =125 R _L =3.3k | ALL | MIN. | 0.2 | V |
| I _L | I _G =1.2I _{GT} | - - | MAX . | 15 | A |
| | | | | 30 | |
| I _H | I _T =50mA | | MAX . | 15 | A |
| d | V _D =400V Gate Op n _T =110 V/d | | MIN. | 250 | Vt s |

(d) (d) 0.44A/nT j=1 V/d AmAm/d)c)c=

ORDERING INFORMATION



MARKING

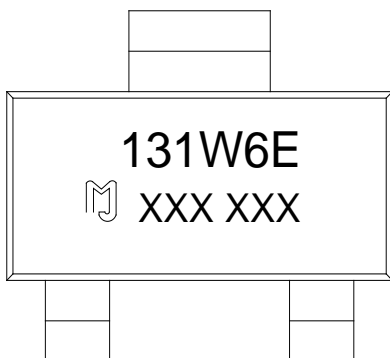


FIG.1: Main
input

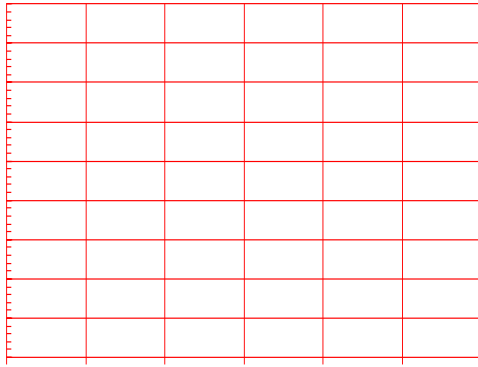
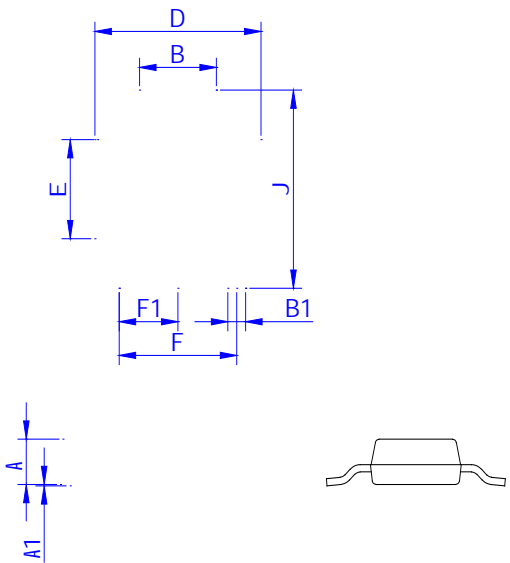


FIG.2: RMS
output

PACKAGE MECHANICAL DATA



DELIVERY MODE

| Ref. | Mill ients | Diens | IoDE |
|------|------------|-------|------|
|------|------------|-------|------|

