



JST138K-800F 12A TRIAC

Rev.A.1.1

DESCRIPTION:

The JST138K-800F is a 12A TRIAC. It is a bidirectional device that can be used in both directions. It is suitable for AC power control applications. The device is packaged in a TO-18 package. The maximum current is 12A and the maximum voltage is 800V. The device is designed for high reliability and long life.

MAIN FEATURES

ABSOLUTE MAXIMUM RATINGS

| Parameter            | Symbol | Value      | Unit |
|----------------------|--------|------------|------|
| Storage Temperature  | $T_s$  | -40 to 150 | °C   |
| Junction Temperature | $T_j$  | -40 to 150 | °C   |





FIG.1:  $\frac{V_{DS}}{I_{D(RMS)}}$

$\frac{V_{DS}}{I_{D(RMS)}}$

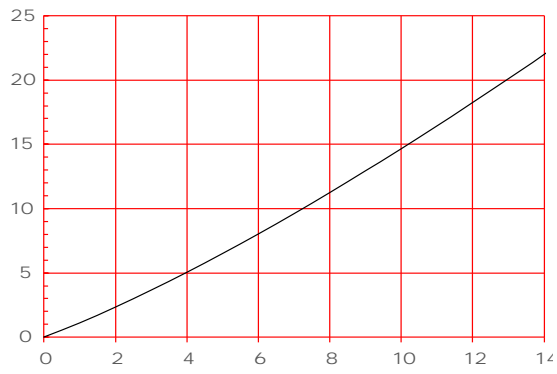



FIG.2:  $\frac{V_{DS}}{I_{D(RMS)}}$

$\frac{V_{DS}}{I_{D(RMS)}}$

FIG.7: 









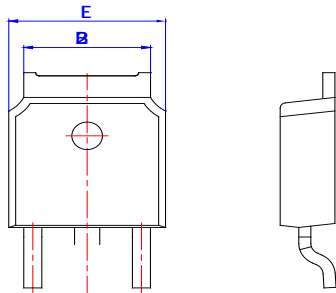
ORDERING INFORMATION

| Order code      | Voltage<br>V <sub>DRM</sub> /V <sub>RRM</sub> (V) | IGT(mA) |    | Package | Base qty.<br>(pcs) | Delivery mode |
|-----------------|---|---------|----|---------|--------------------|---------------|
|                 |   | -       | -  |         |                    |               |
| JST138K-800F    | 800   | 25      | 70 | TO-252  | 80                 | Tube          |
| JST138K-800F-TR |   |         |    |         | 2,500              | Tape & Reel   |

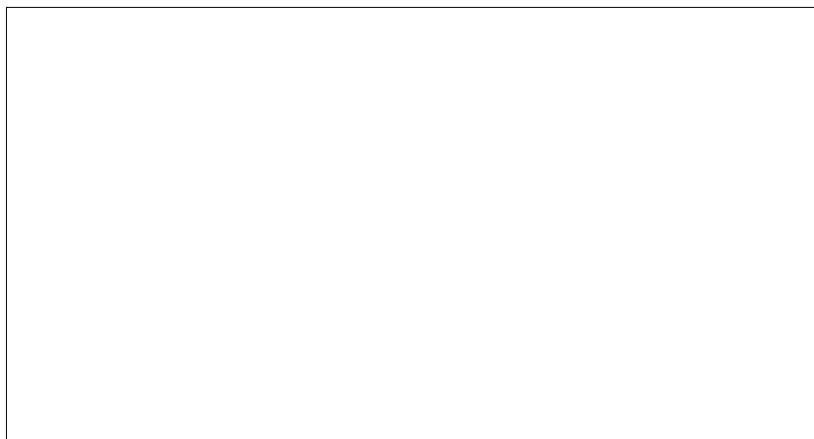
Document Revision History

| Rev         | Change | Reason   |
|-------------|--------|--|
| A 1.4, 2, 3 | A 1.0  | Initial  |
| C 2         | A 1.1  | Revise  |

PACKAGE MECHANICAL DATA



| R | S  |   |     |   |   |   |
|---|----|---|-----|---|---|---|
|   | M  |   |     | b |   |   |
|   | Mh | φ | M   | M | φ | M |
| A | 0  |   | 0   | 0 |   | 0 |
| B | 0  |   | 0   | 0 |   | 0 |
| B | 0  |   | 0 0 |   |   | 0 |
| C | 0  |   | 0   | 0 |   | 0 |
| D | 0  |   | 0 0 |   |   | 0 |
| D |    |   |     |   |   |   |
| E | 0  |   | 0 0 |   |   | 0 |
| F | 0  |   |     | 0 |   |   |
| G | 0  |   | 0 0 |   |   | 0 |
| G | 0  |   | 0   | 0 |   | 0 |
|   |    |   |     |   |   |   |
| L | 0  |   | 0   | 0 |   | 0 |
| D | 0  |   | 0   | 0 |   | 0 |
|   |    |   |     |   |   |   |



DELIVERY MODE

