

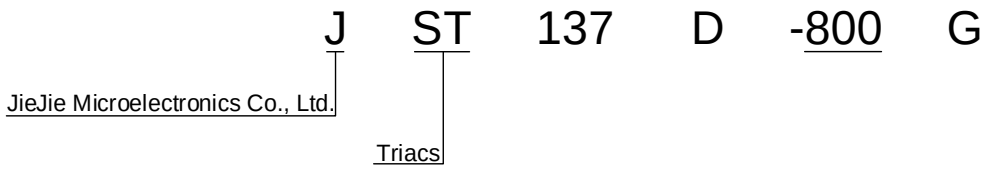


The JST137D-800G triac is suitable for general purpose AC switching. It can be used as an ON/OFF function in applications such as heating regulation, induction motor starting circuits, for phase control operation in light dimmers, motor speed controllers. Package TO-262 is RoHS compliant.

### Parameter

(T<sub>j</sub>=25 unless otherwise specified)

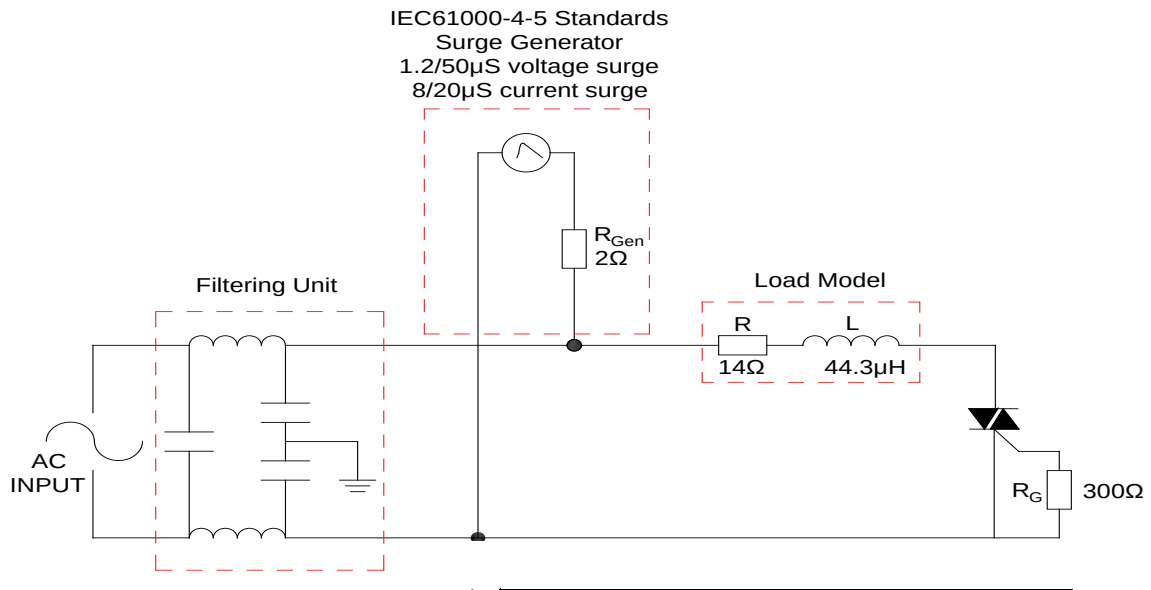
| Symbol          | Test Condition                                                                | Quadrant | Value |     | Unit |
|-----------------|-------------------------------------------------------------------------------|----------|-------|-----|------|
| I <sub>GT</sub> | V <sub>D</sub> =12V R <sub>L</sub> =33Ω                                       | - -      | MAX.  | 50  | mA   |
|                 |                                                                               |          |       | 100 |      |
| V <sub>GT</sub> |                                                                               | ALL      | MAX.  | 1   | V    |
| V <sub>GD</sub> | V <sub>D</sub> =V <sub>DRM</sub> T <sub>j</sub> =125<br>R <sub>L</sub> =3.3kΩ | ALL      | MIN.  | 0.2 | V    |
| I <sub>L</sub>  | I <sub>G</sub> =1.2I <sub>GT</sub>                                            | - -      | MAX.  | 70  | mA   |
|                 |                                                                               |          |       | 100 |      |



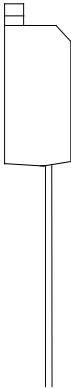
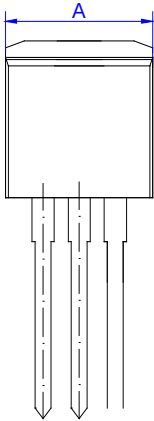
800:VDRMw2j00



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







| Ref. | Dimensions  |      |       |        |      |       |
|------|-------------|------|-------|--------|------|-------|
|      | Millimeters |      |       | Inches |      |       |
|      | Min.        | Typ. | Max.  | Min.   | Typ. | Max.  |
| A    | 9.95        |      | 10.20 | 0.392  |      | 0.402 |
| B    | 23.85       |      | 24.05 | 0.939  |      | 0.947 |
| C    | 9.40        |      | 9.60  | 0.370  |      | 0.378 |
| D    | 4.95        |      | 5.25  | 0.195  |      | 0.207 |
| E    | 1.35        |      | 1.40  | 0.053  |      | 0.055 |
| F    | 0.80        |      | 0.85  | 0.031  |      | 0.033 |
| G    |             |      |       |        |      |       |
| H    | 4.45        |      | 4.55  | 0.175  |      | 0.179 |
| J    | 2.20        |      | 2.60  | 0.087  |      | 0.102 |
| K    | 0.48        |      | 0.52  | 0.019  |      | 0.020 |
|      |             |      |       |        |      |       |

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