



**JST134QP-600D    4A TRIAC**

Rev.A.1.0

The JST134QP-600D triac is suitable for g -13 (fT6 (t)2 (abl)6 (e)10 ( )106 (e)10 ( )100D)]TJ 0 3 ( )]

(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> =33                                                | - -      | MAX.  | 5   | mA   |
|                      |                                                                                       |          |       | 10  |      |
| 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> =3.3k          | ALL      | MIN.  | 0.2 | V    |
| I <sub>L</sub>       | I <sub>G</sub> =1.2I <sub>GT</sub>                                                    | - -      | MAX.  | 10  | mA   |
|                      |                                                                                       |          |       | 20  |      |
| I <sub>H</sub>       | I <sub>T</sub> =100mA                                                                 |          | MAX.  | 7   | mA   |
| dV/dt                | V <sub>D</sub> =400V Gate Open T <sub>j</sub> =110                                    |          | MIN.  | 120 | V s  |
| (dV/dt) <sub>c</sub> | (dI/dt) <sub>c</sub> =1.8A/ms, T <sub>j</sub> =110                                    |          | MIN.  | 2.5 |      |
| t <sub>on</sub>      | I <sub>G</sub> =20mA I <sub>A</sub> =200mA I <sub>R</sub> =20mA<br>T <sub>j</sub> =25 |          | TYP.  | 2.5 | s    |
| t <sub>off</sub>     |                                                                                       |          |       | 25  |      |

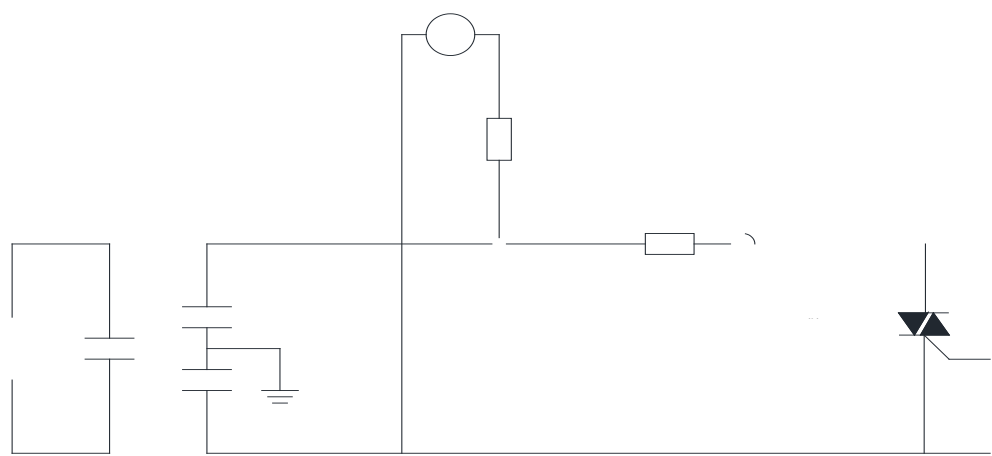
| Symbol           | Parameter                                                         |                     | Value(MAX.) | Unit |
|------------------|-------------------------------------------------------------------|---------------------|-------------|------|
| V <sub>TM</sub>  | I <sub>TM</sub> =5A t <sub>p</sub> =380 s                         | T <sub>j</sub> =25  | 1.55        | V    |
| V <sub>TO</sub>  | Threshold voltage                                                 | T <sub>j</sub> =125 | 0.92        | V    |
| R <sub>D</sub>   | Dynamic resistance                                                | T <sub>j</sub> =125 | 107         |      |
| I <sub>DRM</sub> | V <sub>D</sub> =V <sub>DRM</sub> V <sub>R</sub> =V <sub>RDM</sub> | T <sub>j</sub> =25  | 5           | A    |
| I <sub>RRM</sub> |                                                                   | T <sub>j</sub> =125 | 0.25        | mA   |

| Symbol               | Parameter                | Value | Unit |
|----------------------|--------------------------|-------|------|
| R <sub>th(j-c)</sub> | junction to case (AC)    | 7.0   | /W   |
| R <sub>th(j-a)</sub> | junction to ambient (AC) | 150   | /W   |

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



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