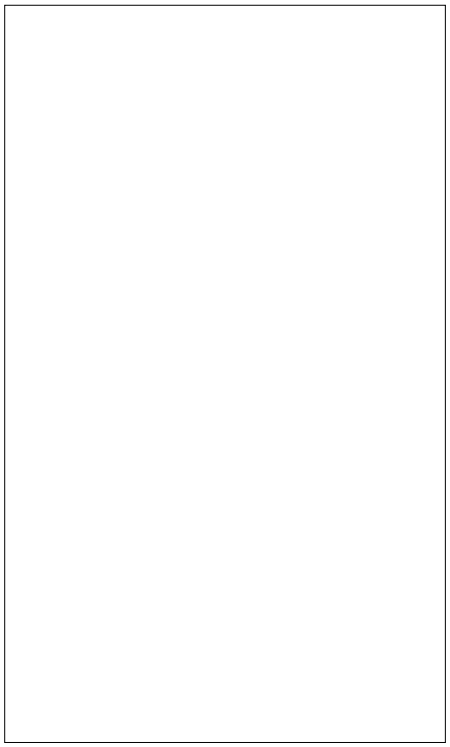
# ACJT610-8K 6A TRIAC

Rev.A.1.1

## DESCRIPTION:

The ACJT610-8K 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. The ACJT610-8K embeds a TVS structure to absorb the inductive turn-off energy such as those described in the IEC 61000-4-5 standards. Package TO-252 is RoHS compliant.



## ORDERING INFORMATION

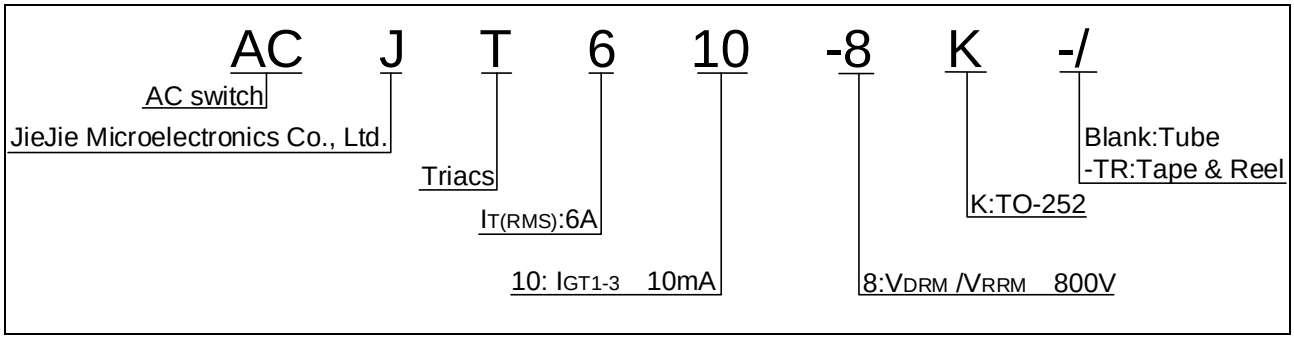


**FIG.1:** Maximum power dissipation versus RMS on-state current

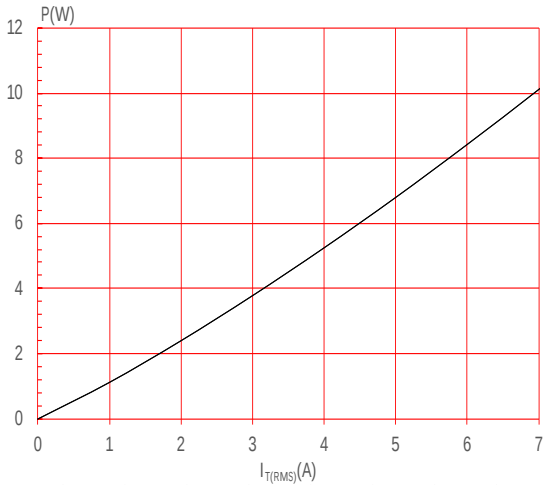



**FIG.2:** RMS on-state current versus case temperature

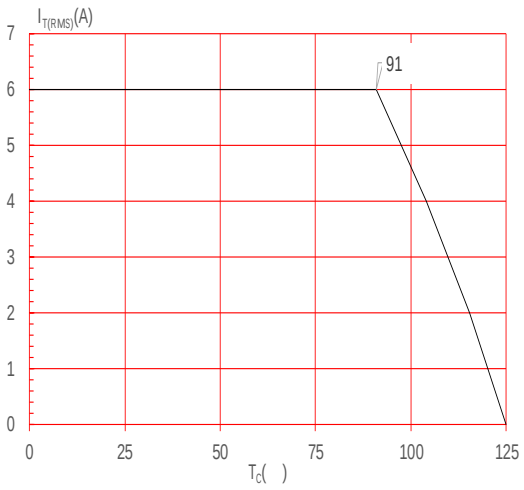



**FIG.3:** RMS on-state current versus ambient temperature (printed circuit board FR4,copper thickness:35εm)(full cycle)

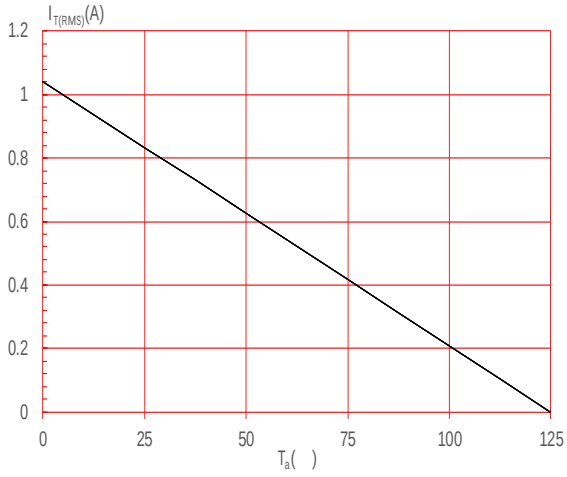



**FIG.4:** Surge peak on-state current versus number of cycles



**FIG.7:** Relative variations of gate trigger current, holding current and latching current versus junction temperature

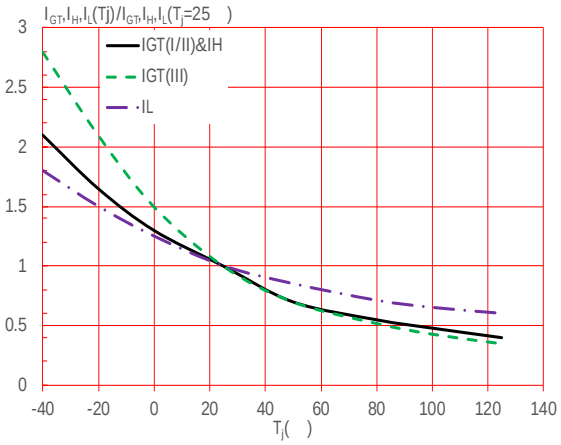
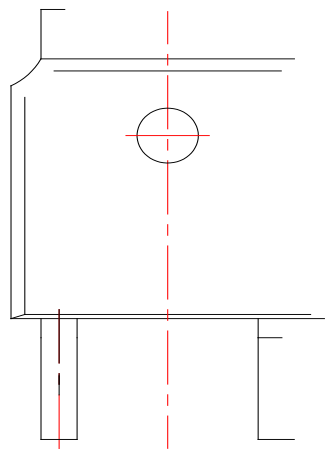


FIG.8 Test circuit for inductive and resistive loads to IEC-61000-4-5 standards



## PACKAGE MECHANICAL DATA



| Ref. | Dimensions | | | | | |
|---|---|---|---|---|---|---|
| | Typ. | Millimeters Typ AA2B | | | Inches | |
| | | C | | | | |
| | | DE | | | | |
| | | GG1L00.66 | | | | |
| | | 0.400.150.86 | | | | |
| | | 0.6000.026 | | | | |
| | | 0.0160.0060.034 | | | | |
| | | 0.024 | | | | |
| C2 0.44 | | 0.58 | 0.017 | | 0.023 | |

5.90 6.30L20.232 0.248

6.80 0.252 6.40 0.268

4.47 4.67 0.176 0.184

2.180.086 0.094

1.09 1.21 0.043 0.048

1.35B2 5.18 5.48 0.053 0.203 0.016 0.055

[redacted]