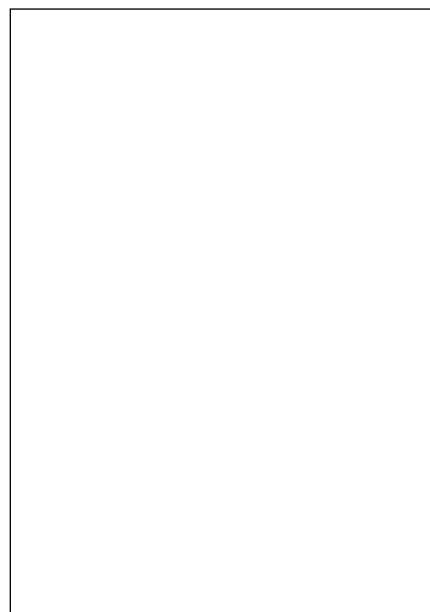


DESCRIPTION:

The JST137D-600G 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.



MAIN FEATURES

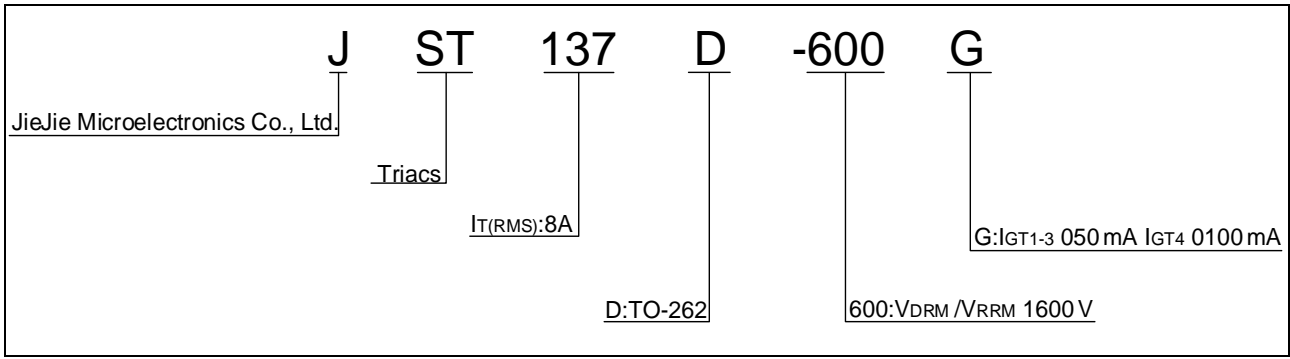
| Symbol | Value | Unit |
|-------------------|--------------|------|
| $I_{T(RMS)}$ | 8 | A |
| V_{DRM}/V_{RRM} | 600 | V |
| $I_{GT} / / /$ | 50/50/50/100 | mA |

ABSOLUTE MAXIMUM RATINGS

| Parameter | Symbol | Value | Unit |
|------------------------------------------------------------------------------------------------------------------|--------------|---------|----------------------|
| Storage junction temperature range | T_{stg} | -40-150 | |
| Operating junction temperature range | T_j | -40-125 | |
| Repetitive peak off-state voltage ($T_j=25^\circ\text{C}$) | V_{DRM} | 600 | V |
| Repetitive peak reverse voltage ($T_j=25^\circ\text{C}$) | V_{RRM} | 600 | V |
| RMS on-state current ($T_c 0100^\circ\text{C}$) | $I_{T(RMS)}$ | 8 | A |
| Non repetitive surge peak on-state current (full cycle, $t_p=20\text{ms}$, $T_j=25^\circ\text{C}$) | I_{TSM} | 65 | A |
| Non repetitive surge peak on-state current (full cycle, $t_p=16.6\text{ms}$, $T_j=25^\circ\text{C}$) | | 72 | |
| I^2t value for fusing ($t_p=10\text{ms}$, $T_j=25^\circ\text{C}$) | I^2t | 21 | A^2s |
| Critical rate of rise of on-state current ($I_G=2 \times I_{GT}$, $f=100\text{Hz}$, $T_j=125^\circ\text{C}$) | - | - | - |
| | | | |
| | | 50 | |
| Peak gate current ($t_p=20\text{ }\mu\text{s}$, $T_j=125^\circ\text{C}$) | I_{GM} | 4 | A |
| Average gate power dissipation ($T_j=125^\circ\text{C}$) | $P_{G(AV)}$ | 0.5 | W |
| Peak gate power | P_{GM} | 10 | W |
| Peak pulse voltage ($T_j=25^\circ\text{C}$; non-repetitive, off-state; FIG.7) | V_{pp} | 4 | kV |

ELECTRICAL CHARACTERISTICS

ORDERING INFORMATION



MARKING

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

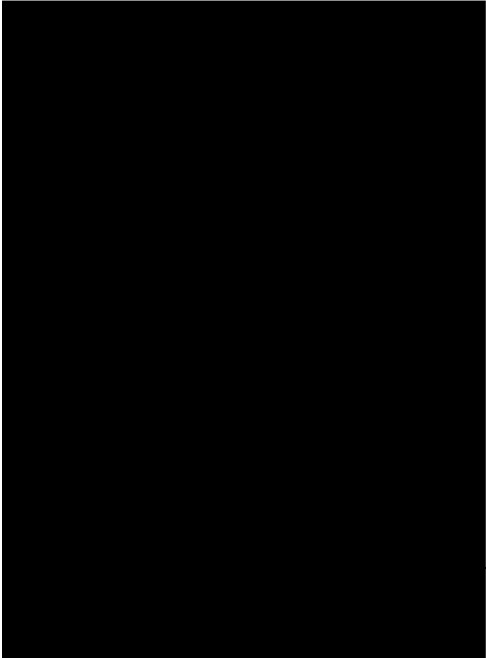
FIG.2: RMS on-state current versus case temperature



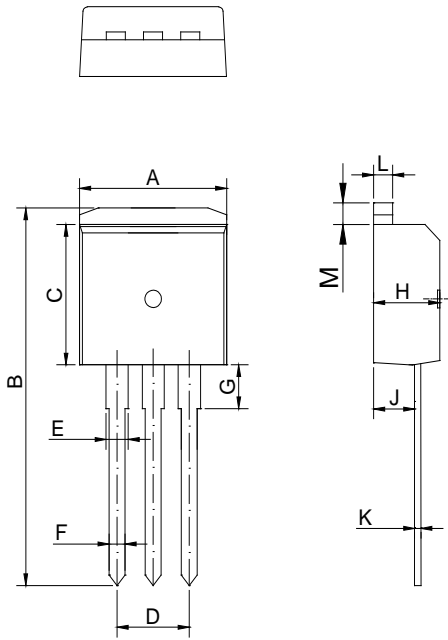
IGT(mA)

Package

Base qty.
(pcs)

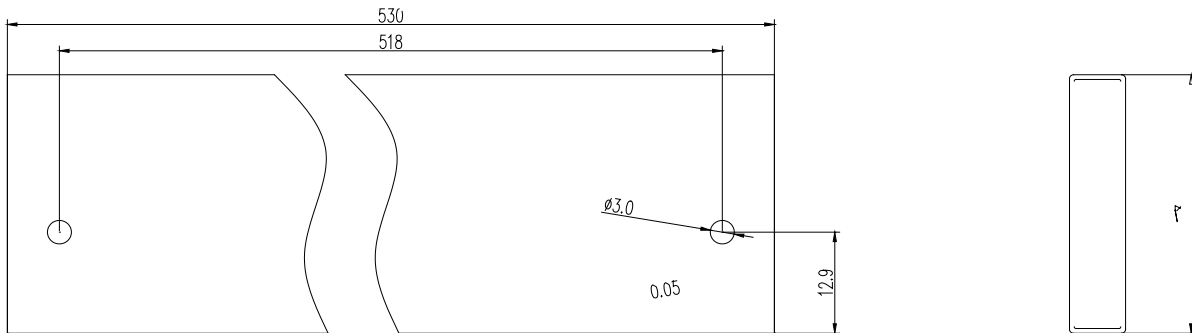


PACKAGE MECHANICAL DATA



| 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 | 2.70 | | 3.40 | 0.106 | | 0.134 |
| 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 |
| L | 1.30 | | 1.35 | 0.051 | | 0.053 |
| M | 1.20 | | 1.50 | 0.047 | | 0.059 |

DELIVERY MODE



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