## Thyristor Modules

ECO-PAC 2

| $\mathbf{V}_{\text {RSM }}$ | $\mathbf{V}_{\text {RRM }}$ |  |
| :---: | :---: | :--- |
| $\mathbf{V}_{\text {DSM }}$ | $\mathbf{V}_{\text {DRM }}$ | Typ |
| $\mathbf{V}$ | $\mathbf{V}$ |  |
| 1300 | 1200 | VCO 180-12io7 |
| 1700 | 1600 | VCO 180-16io7 |


| $I_{\text {TRMS }}=$ | 280 A |
| :--- | ---: |
| $\mathrm{I}_{\text {TAVM }}=$ | 180 A |
| $\mathrm{~V}_{\text {RRM }}=$ | $1200 / 1600 \mathrm{~V}$ |



## Features

- Isolation voltage 3600 V~
- Planar glass passivated chips
- Low forward voltage drop
- Leads suitable for PC board soldering


## Applications

- DC Motor control
- Light and temperature control
- Softstart AC motor controller
- Solid state switches


## Advantages

- Easy to mount with two screws
- Space and weight savings
- Improved temperature and power cycling
- High power density
- Small and light weight

| Symbol | Conditions | Characteristic Values |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | typ. |  | max. |  |
| $\mathrm{I}_{\mathrm{D}}, \mathrm{I}_{\mathrm{R}}$ | $\mathrm{V}_{\mathrm{R}} / \mathrm{V}_{\mathrm{D}}=\mathrm{V}_{\text {RRM }} / \mathrm{V}_{\text {DRM }}$ | $\mathrm{T}_{\mathrm{V},}=125^{\circ} \mathrm{C}$ |  | 10 | mA |
| $\mathrm{V}_{\mathrm{T}}$ | $\mathrm{I}_{\mathrm{T}}=200 \mathrm{~A}$ | $\mathrm{T}_{\mathrm{VJ}}=25^{\circ} \mathrm{C}$ |  | 1.1 | V |
| $\mathrm{V}_{\text {T0 }}$ $\mathrm{r}_{\text {t }}$ | For power-loss calculations only |  |  | $\begin{aligned} & \hline 0.75 \\ & 1.23 \end{aligned}$ | $V$ $\mathrm{~m} \Omega$ |
| $\mathrm{V}_{\text {GT }}$ | $\mathrm{V}_{\mathrm{D}}=6 \mathrm{~V}$ | $\mathrm{T}_{\mathrm{VJ}}=25^{\circ} \mathrm{C}$ |  | 1.5 | V |
|  |  | $\mathrm{T}_{\mathrm{VJ}}=-40^{\circ} \mathrm{C}$ |  | 1.6 | V |
| $\mathrm{I}_{\mathrm{GT}}$ | $\mathrm{V}_{\mathrm{D}}=6 \mathrm{~V}$ | $\mathrm{T}_{\mathrm{vj}}=25^{\circ} \mathrm{C}$ |  | 300 | mA |
|  |  | $\mathrm{T}_{\mathrm{V},}=-40^{\circ} \mathrm{C}$ |  | 400 | mA |
| $\mathrm{V}_{\text {GD }}$ | $\mathrm{V}_{\mathrm{D}}=2 / 3 \mathrm{~V}_{\text {DRM }} ;$ | $\mathrm{T}_{\mathrm{V},}=125^{\circ} \mathrm{C}$ |  | 0.2 | V |
| $\mathrm{I}_{\mathrm{GD}}$ |  |  |  | 10 | mA |
| $\mathrm{I}_{\mathrm{L}}$ | $\begin{aligned} & \mathrm{t}_{\mathrm{p}}=10 \mu \mathrm{~s} ; \\ & \mathrm{P}_{\mathrm{G}}=0.5 \mathrm{~A} ; \mathrm{di}_{\mathrm{G}} / \mathrm{dt}=0.5 \mathrm{~A} / \mu \mathrm{s} \end{aligned}$ | $\mathrm{T}_{\mathrm{v} j}=25^{\circ} \mathrm{C}$ |  | 450 | mA |
| $\mathrm{I}_{\mathrm{H}}$ | $\mathrm{V}_{\mathrm{D}}=6 \mathrm{~V} ; \mathrm{R}_{\mathrm{GK}}=\infty$; | $\mathrm{T}_{\mathrm{vj}}=25^{\circ} \mathrm{C}$ |  | 200 | mA |
| $\mathrm{tgd}_{\text {gd }}$ | $\begin{aligned} & \mathrm{V}_{\mathrm{D}}=1 / 2 \mathrm{~V}_{\mathrm{DRM}} \\ & \mathrm{I}_{\mathrm{G}}=0.5 \mathrm{~A} ; \mathrm{di}_{\mathrm{G}} / \mathrm{dt}=0.5 \mathrm{~A} / \mu \mathrm{s} \end{aligned}$ | $\mathrm{T}_{\mathrm{vj}}=25^{\circ} \mathrm{C}$ |  | 2 | $\mu \mathrm{s}$ |
| $\begin{aligned} & \mathbf{R}_{\mathrm{thJc}} \\ & \mathbf{R}_{\mathrm{thJH}} \\ & \hline \end{aligned}$ | per thyristor; DC current |  | 0.23 | 0.17 | $\begin{aligned} & \text { K/W } \\ & \text { K/W } \end{aligned}$ |
| $\mathrm{d}_{\text {s }}$ | Creeping distance on surface |  |  | 11.2 | mm |
| $d_{\text {A }}$ | Creepage distance in air |  |  | 5.0 | mm |
| a | Maximum allowable acceleration |  |  | 50 | $\mathrm{m} / \mathrm{s}^{2}$ |

Dimensions in mm ( $1 \mathrm{~mm}=0.0394^{\prime \prime}$ )


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