## Thyristor Module

## AC Controlling 3~ full-controlled

## Part number

VWO35-08HO7
$\mathrm{V}_{\mathrm{RRM}}=800 \mathrm{~V}$
$\mathrm{I}_{\mathrm{TAV}}=16 \mathrm{~A}$
$\mathrm{~V}_{\mathrm{T}}=1.19 \mathrm{~V}$


## Features / Advantages:

- Thyristor for line frequency
- Planar passivated chip
- Long-term stability
- Direct Copper Bonded Al2O3-ceramic


## Applications:

- Line rectifying $50 / 60 \mathrm{~Hz}$
- Softstart AC motor control
- DC Motor control
- Power converter
- AC power control
- Lighting and temperature control

Package: ECO-PAC1

- Isolation Voltage: 3000 V~
- Industry standard outline
- RoHS compliant
- Soldering pins for PCB mounting
- Height: 9 mm
- Base plate: DCB ceramic
- Reduced weight
- Advanced power cycling


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| Package | ECO-PAC1 |  | Ratings |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Symbol | Definition Conditions |  | min. | typ. | max. | Unit |
| $\mathrm{I}_{\text {RMS }}$ | RMS current per terminal |  |  |  | 40 | A |
| $\mathrm{T}_{\mathrm{v},}$ | virtual junction temperature |  | -40 |  | 125 | ${ }^{\circ} \mathrm{C}$ |
| $\mathrm{T}_{\text {op }}$ | operation temperature |  | -40 |  | 100 | ${ }^{\circ} \mathrm{C}$ |
| $\mathrm{T}_{\text {stg }}$ | storage temperature |  | -40 |  | 125 | ${ }^{\circ} \mathrm{C}$ |
| Weight |  |  |  | 19 |  | g |
| $\mathrm{M}_{\mathrm{D}}$ | mounting torque |  | 1.4 |  | 2 | Nm |
| $\mathbf{d}_{\text {Spp/App }}$ <br> $\mathbf{d}_{\text {spb/Apb }}$ | creepage distance on surface / striking distance through air | terminal to terminal terminal to backside | $\begin{array}{r} 6.0 \\ 10.0 \end{array}$ |  |  | mm mm |
| $\mathrm{V}_{\text {ISoL }}$ | isolation voltage $\quad \begin{aligned} & t=1 \text { second } \\ & t=1 \text { minute }\end{aligned}$ | $50 / 60 \mathrm{~Hz}, \mathrm{RMS}$; $\mathrm{lisol} \leq 1 \mathrm{~mA}$ | $\begin{aligned} & 3000 \\ & 2500 \end{aligned}$ |  |  | V V |



| Ordering | Ordering Number | Marking on Product | Delivery Mode | Quantity | Code No. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Standard | VWO35-08ho7 | VWO35-08ho7 | Box | 25 | 491837 |

Equivalent Circuits for Simulation *on die level $\quad \mathrm{T}_{\mathrm{vJ}}=125^{\circ} \mathrm{C}$

$\mathrm{R}_{0}$
threshold voltage 0.88
0.88 V
$\mathbf{R}_{0 \text { max }}$ slope resistance * $18 \mathrm{~m} \Omega$

Thyristor
$\mathbf{V}_{0 \text { max }}$ threshold voltage 0.88 $\mathrm{m} \Omega$

Outlines


## Thyristor



Fig. 1 Forward current vs. voltage drop per thyristor


Fig. 4 Gate trigger characteristics


Fig. 2 Surge overload current vs. time per thyristor


Fig. 5 Gate trigger delay time


Fig. $3 I^{2} t$ vs. time per thyristor

Fig. 5 Max. forward current vs. case temperature per thyristor


Fig. 4 Power dissipation vs. forward current and ambient temperature per thyristor


Fig. 6 Transient thermal impedance junction to case vs. time per thyristor

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| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 25.163.2453.0 | 25.163.4253.0 | 25.190.2053.0 | 25.194.3453.0 | 25.320.4853.1 | 25.320.5253.1 | 25.326.3253.1 | 25.326.3553.1 | 25.330.1 | 1653.1 |
| 25.330.4753.1 | 25.330.5253.1 | 25.334.3253.1 | 25.334.3353.1 | 25.350.2053.0 | 25.352.4753.1 | 25.522.3253.0 | T483C T484C | T485F | T485 |
| T512F-YEB | T513F T514F | T554 T612FSE | 25.161.3453.0 | 25.179.2253.0 | 25.194.3253.0 | 25.325.1253.1 | 25.326.4253.1 | 25.330.0 | 0953.1 |
| 25.332.4353.1 | 25.350.1653.0 | 25.350.2453.0 | 25.352.1453.0 | 25.352.1653.0 | 25.352.2453.0 | 25.352.5453.1 | 25.522.3353.0 | 25.602.4 | 4053.0 |
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