## : ©hipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation, and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!


## Contact us

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## Three Phase Rectifier Bridge

| $V_{\text {RSM }}$ | $V_{\text {RRM }}$ | Type |
| :---: | :---: | :--- |
| $V_{\text {DSM }}$ | $V_{\text {DRM }}$ |  |
| $V$ | $V$ |  |
| 1700 | 1600 | VVZF 70-16io7 |



\begin{tabular}{|c|c|c|c|c|c|}
\hline Symbol \& \multicolumn{3}{|l|}{Conditions} \& \multicolumn{2}{|l|}{Maximum Ratings} <br>
\hline $$
\begin{aligned}
& \begin{array}{l}
\mathrm{I}_{\mathrm{AVV}}{ }^{(1)} \\
\mathrm{I}_{\mathrm{dAVM}}^{(1)} \\
\mathrm{I}_{\mathrm{FRMS}}, \mathrm{I}_{\mathrm{TRMS}} \\
\hline
\end{array} \\
& \hline
\end{aligned}
$$ \& \multicolumn{3}{|l|}{$\mathrm{T}_{\mathrm{C}}=85^{\circ} \mathrm{C}$, module module per leg} \& 70
70
36 \& A <br>
\hline $\mathrm{I}_{\text {FSM }}, \mathrm{I}_{\text {TSM }}$ \& $$
\begin{array}{ll}
\mathrm{T}_{\mathrm{vJ}}=45^{\circ} \mathrm{C} ; & \mathrm{t} \\
\mathrm{~V}_{\mathrm{R}}=0 & \mathrm{t} \\
\hline
\end{array}
$$ \& $$
\begin{aligned}
& \mathrm{t}=10 \mathrm{~ms} \\
& \mathrm{t}=8.3 \mathrm{~ms}
\end{aligned}
$$ \& $$
\begin{aligned}
& (50 \mathrm{~Hz}) \\
& (60 \mathrm{~Hz})
\end{aligned}
$$ \& $$
\begin{aligned}
& 550 \\
& 600
\end{aligned}
$$ \& A <br>
\hline \& $$
\begin{array}{ll}
\hline \mathrm{T}_{\mathrm{VJ}}=\mathrm{T}_{\mathrm{VJM}} ; \\
\mathrm{t} \\
\mathrm{~V}_{\mathrm{o}}=0
\end{array}
$$ \& $$
\begin{aligned}
& \mathrm{t}=10 \mathrm{~ms} \\
& \mathrm{t}=8.3 \mathrm{~ms}
\end{aligned}
$$ \& $$
\begin{aligned}
& \hline(50 \mathrm{~Hz}) \\
& (60 \mathrm{~Hz})
\end{aligned}
$$ \& 500
550 \& A <br>
\hline $\mathrm{I}^{2} \mathrm{t}$ \& $$
\begin{array}{ll}
\mathrm{T}_{\mathrm{vJ}}=45^{\circ} \mathrm{C} ; & \mathrm{t} \\
\mathrm{~V}_{\mathrm{R}}=0 & \mathrm{t}
\end{array}
$$ \& $$
\begin{aligned}
& \mathrm{t}=10 \mathrm{~ms} \\
& \mathrm{t}=8.3 \mathrm{~ms}
\end{aligned}
$$ \& $$
\begin{aligned}
& (50 \mathrm{~Hz}) \\
& (60 \mathrm{~Hz})
\end{aligned}
$$ \& $$
\begin{aligned}
& 1520 \\
& 1520
\end{aligned}
$$ \& $\mathrm{A}^{2} \mathrm{~S}$
$\mathrm{~A}^{2} \mathrm{~S}$ <br>
\hline \& $$
\begin{array}{ll}
\hline \mathrm{T}_{\mathrm{V},}=\mathrm{T}_{\mathrm{VJM}} ; & \mathrm{t} \\
\mathrm{~V}_{\mathrm{R}}=0 & \mathrm{t}
\end{array}
$$ \& $$
\begin{aligned}
& \mathrm{t}=10 \mathrm{~ms} \\
& \mathrm{t}=8.3 \mathrm{~ms}
\end{aligned}
$$ \& $$
\begin{aligned}
& \hline(50 \mathrm{~Hz}) \\
& (60 \mathrm{~Hz})
\end{aligned}
$$ \& $$
\begin{aligned}
& 1250 \\
& 1250
\end{aligned}
$$ \& $\mathrm{A}^{2} \mathrm{~S}$
$\mathrm{~A}^{2} \mathrm{~S}$ <br>
\hline (di/dt) ${ }_{\text {cr }}$ \& \multicolumn{2}{|l|}{$$
\begin{aligned}
& \mathrm{T}_{\mathrm{vJ}}=125^{\circ} \mathrm{C} \\
& \mathrm{f}=50 \mathrm{~Hz} ; \mathrm{tp}=200 \mu \mathrm{~s}
\end{aligned}
$$} \& repetitive; $\mathrm{I}_{T}=50 \mathrm{~A}$ \& 150 \& A/ $/ \mathrm{s}$ <br>
\hline \& \multicolumn{2}{|l|}{$$
\begin{aligned}
& V_{D}=2 / 3 V_{\text {DRM }} \\
& \mathrm{I}_{\mathrm{G}}=0.3 \mathrm{~A} \\
& \mathrm{di}_{\mathrm{G}} / \mathrm{dt}=0.3 \mathrm{~A} / \mu \mathrm{S}
\end{aligned}
$$} \& non repetitive;
$$
I_{T}=1 / 2 l_{\mathrm{dAV}}
$$ \& 500 \& A/ $/ \mathrm{s}$ <br>
\hline (dv/dt) ${ }_{\text {cr }}$ \& \multicolumn{3}{|l|}{$$
\begin{aligned}
& \mathrm{T}_{\mathrm{VJ}}=\mathrm{T}_{\mathrm{VJMM}} ; \mathrm{V}_{\mathrm{D}}=2 / 3 \mathrm{~V}_{\mathrm{DRM}} \\
& \mathrm{R}_{\mathrm{GK}}=\infty, \text { method } 1 \text { (linear voltage rise) } \\
& \hline
\end{aligned}
$$} \& 1000 \& V/ $/$ s <br>
\hline $\mathrm{V}_{\text {RGM }}$ \& \& \& \& 10 \& V <br>
\hline $\mathbf{P G M}_{\text {G }}$ \& $$
\begin{aligned}
& \mathrm{T}_{\mathrm{VJ}}=\mathrm{T}_{\mathrm{VJM}} \\
& \mathrm{I}_{\mathrm{T}}=\mathrm{I}_{\mathrm{TAVM}}
\end{aligned}
$$ \& \multicolumn{2}{|l|}{$$
\begin{aligned}
& \mathrm{t}_{\mathrm{p}}=30 \mu \mathrm{~s} \\
& \mathrm{t}_{\mathrm{p}}=500 \mu \mathrm{~s} \\
& \mathrm{t}_{\mathrm{p}}=10 \mu \mathrm{~s}
\end{aligned}
$$} \& 10
5
1 \& W
W
W <br>
\hline $\mathbf{P}_{\text {GAVM }}$ \& \& \& \& 0.5 \& W <br>
\hline $$
\begin{aligned}
& \hline \mathbf{T}_{\mathrm{vJ}} \\
& \mathbf{T}_{\mathrm{vJM}} \\
& \mathbf{T}_{\text {stg }} \\
& \hline
\end{aligned}
$$ \& \& \& \& $$
\begin{array}{r}
\hline-40 \ldots+125 \\
125 \\
-40 \ldots+125 \\
\hline
\end{array}
$$ \& a

${ }^{\circ} \mathrm{C}$
${ }^{\circ} \mathrm{C}$ <br>

\hline $\mathrm{V}_{\text {ISOL }}$ \& \[
$$
\begin{aligned}
& 50 / 60 \mathrm{~Hz}, \mathrm{RMS} \\
& \mathrm{I}_{\text {sol }} \leq 1 \mathrm{~mA}
\end{aligned}
$$

\] \& \multicolumn{2}{|l|}{\[

is $$
\begin{aligned}
& t=1 \mathrm{~min} \\
& t=1 \mathrm{~s}
\end{aligned}
$$

\]} \& \[

$$
\begin{aligned}
& 2500 \\
& 3000 \\
& \hline
\end{aligned}
$$
\] \& V

~ <br>

\hline $\mathrm{M}_{\mathrm{d}}$ \& Mounting torque \& \multicolumn{2}{|l|}{\[
$$
\begin{aligned}
& \text { (M5) } \\
& \quad(10-32 \text { UNF) } \\
& \hline
\end{aligned}
$$

\]} \& \[

$$
\begin{array}{r}
5 \pm 15 \% \\
44 \pm 15 \%
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
\mathrm{Nm} \\
\mathrm{Ib} . \mathrm{in} .
\end{array}
$$
\] <br>

\hline Weight \& \multicolumn{3}{|l|}{Typ.} \& 100 \& g <br>
\hline
\end{tabular}

Data according to IEC 60747 and refer to a single diode unless otherwise stated.

$$
\begin{aligned}
& I_{\mathrm{dAV}}=70 \mathrm{~A} \\
& \mathrm{~V}_{\mathrm{RRM}}=1600 \mathrm{~V}
\end{aligned}
$$



## Features

- Package with copper base plate
- Isolation voltage 3000 V~
- Planar passivated chips
- Low forward voltage drop
- $1 / 4$ " fast-on power terminals


## Applications

- Supplies for DC power equipment
- Input rectifiers for PWM inverter
- Battery DC power supplies
- Field supply for DC motors


## Advantages

- Easy to mount with two screw
- Space and weight savings
- Improved temperature \& power cycling capability
- Small and light weight



## Dimensions in mm (1 mm = 0.0394")



