| 1~ <br> Rectifier |
| :---: |
| $\mathrm{V}_{\text {RRM }}=1200 \mathrm{~V}$ |
| $\mathrm{I}_{\text {DAV }}=124 \mathrm{~A}$ |
| $\mathrm{I}_{\text {FSM }}=400 \mathrm{~A}$ |

1~ Rectifier Bridge

## Part number

## DLA100B1200LB

Marking on Product: DLA100B1200LB


ME72873

$$
8=n / c
$$



## Features / Advantages:

- Planar passivated chips
- Very low leakage current
- Very low forward voltage drop
- Improved thermal behaviour


## Applications:

- Diode Bridge for main rectification

Package: SMPD

- Isolation Voltage: 3000 V~
- Industry convenient outline
- RoHS compliant
- Epoxy meets UL 94V-0
- Soldering pins for PCB mounting
- Backside: DCB ceramic
- Reduced weight
- Advanced power cycling


## Disclaimer Notice

Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littelfuse products are not designed for, and may not be used in, all applications. Read complete Disclaimer Notice at www.littelfuse.com/disclaimer-electronics.

DLA100B1200LB


| Package | SMPD |  | Ratings |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Symbol | Definition Conditions |  | min. | typ. | max. | Unit |
| $\mathrm{I}_{\text {RMS }}$ | RMS current per terminal |  |  |  | 100 | A |
| $\mathrm{T}_{\mathrm{vj}}$ | virtual junction temperature |  | -55 |  | 175 | ${ }^{\circ} \mathrm{C}$ |
| $\mathrm{T}_{\text {op }}$ | operation temperature |  | -55 |  | 150 | ${ }^{\circ} \mathrm{C}$ |
| $\mathrm{T}_{\text {stg }}$ | storage temperature |  | -55 |  | 150 | ${ }^{\circ} \mathrm{C}$ |
| Weight |  |  |  | 8.5 |  | g |
| $\mathrm{F}_{\mathrm{c}}$ | mounting force with clip |  | 40 |  | 130 | N |
| $\mathbf{d}_{\text {Spp/App }}$ <br> $\mathbf{d}_{\text {Spb/Apb }}$ | creepage distance on surface / striking distance through air | terminal to terminal terminal to backside | $\begin{aligned} & 1.6 \\ & 4.0 \end{aligned}$ |  |  | $\begin{aligned} & \mathrm{mm} \\ & \mathrm{~mm} \end{aligned}$ |
| $\mathrm{V}_{\text {ISoL }}$ | isolation voltage $\quad$$\mathrm{t}=1$ second <br> $\mathrm{t}=1$ minute | $50 / 60 \mathrm{~Hz}, \mathrm{RMS}$; $\mathrm{lisol} \leq 1 \mathrm{~mA}$ | $\begin{aligned} & 3000 \\ & 2500 \end{aligned}$ |  |  | V V |



| Ordering | Ordering Number | Marking on Product | Delivery Mode | Quantity | Code No. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Standard | DLA100B1200LB-TUB | DLA100B1200LB | Tube | 20 | 517180 |
| Alternative | DLA100B1200LB-TRR | DLA100B1200LB | Tape \& Reel | 200 | 517187 |

Equivalent Circuits for Simulation *on die level $\quad \mathrm{T}_{\mathrm{v},}=175^{\circ} \mathrm{C}$


## Outlines SMPD



## Rectifier



Fig. 1 Forward current versus voltage drop per diode


Fig. 2 Surge overload current


Fig. $3 I^{2} t$ versus time per diode


Fig. 5 Max. bridge output current vs. case temperature


Constants for $Z_{\text {thJc }}$ calculation:

| $\mathbf{i}$ | $\mathbf{R}_{\mathrm{thi}}[\mathrm{K} / \mathrm{W}]$ | $\mathbf{t}_{\mathbf{i}}[\mathbf{s}]$ |
| :---: | :--- | :--- |
| 1 | 0.09 | 0.003 |
| 2 | 0.116 | 0.062 |
| 3 | 0.386 | 0.1 |
| 4 | 0.128 | 0.55 |

Fig. 6 Transient thermal impedance junction to case

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