SiC931: 20 A microBRICK
4.5 V TO 18 V BUCK REGULATOR MODULE

VOLTAGE / CURRENT RANGES

\[
\begin{align*}
V_{\text{IN}} (V) & \quad 4.5 & \quad 18 \\
V_{\text{OUT}} (V) & \quad 0.6 & \quad 5.5 \\
I_{\text{OUT}} (A) & \quad 20 \\
\end{align*}
\]

PROGRAMMABLE \( f_{\text{SM}} \)

\[
\begin{align*}
1 \text{ MHz} & \quad 600 \text{ kHz} \\
1.5 \text{ MHz} & \quad 2 \text{ MHz} \\
\end{align*}
\]

95 % PEAK EFFICIENCY

SiC931 Typical Efficiency at \( V_{\text{IN}} = 12 \text{ V} \)

APPLICATIONS

- INFRASTRUCTURE
- INDUSTRIAL
- GAMING
- PORTABLE
- COMPUTING AND PERIPHERALS

THE POWER OF 4 = 1

- MOSFET
- MOSFET
- INDUCTOR
- CONTROLLER
- IC

Highly integrated microBRICK® POL solutions from Vishay Intertechnology deliver high efficiency while reducing costs.

COMPACT
EASY TO USE
PRICE COMPETITIVE
LOW COMPONENT COUNT

RUGGED AND RELIABLE
- Protection features: OVP, OCP, SCP, OTP, power good flag
- PowerPAK® QFN-style package is easy to handle
- More reliable than LGA / BGA type packages
- Low output capacitance
- Wettable flanks improve board-level reliability in industrial applications

Generate your circuit schematic, perform simulations, and automatically generate a BOM

Evaluation Board Available

www.vishay.com

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