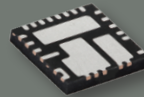




microBUCK[®] / microBRICK[™] Integrated Circuits

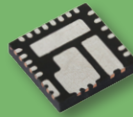
Vishay Automotive Grade
-4.5 V to 60 V, Scalable 2 A,
4 A, 6 A, and 10 A Regulators

SIC48X SERIES



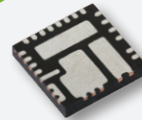
4.5 V to 60 V,
Scalable 2 A, 4 A, 6 A,
and 10 A Regulators

SIC46X SERIES



4.5 V to 55 V,
Scalable 3 A, 5 A, 8 A,
and 12 A Regulators

SIC47X SERIES



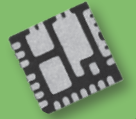
4.5 V to 16 V, Scalable
15 A and 24 A Regulators
With Digital Interface

SIC45X SERIES



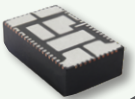
3 V to 28 V,
Scalable 8 A, 12 A,
and 24 A Regulators

SIC43X SERIES



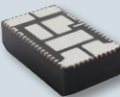
microBRICK[™] - 3 V to 28 V,
Scalable 8 A, 12 A, and
24 A Regulators With
Integrated Inductor

SIC93X SERIES



microBRICK[™] - 4.5 V to 60 V,
Scalable 2 A, 4 A, 6 A, and 10 A
Regulators With Integrated Inductor

SIC96X SERIES





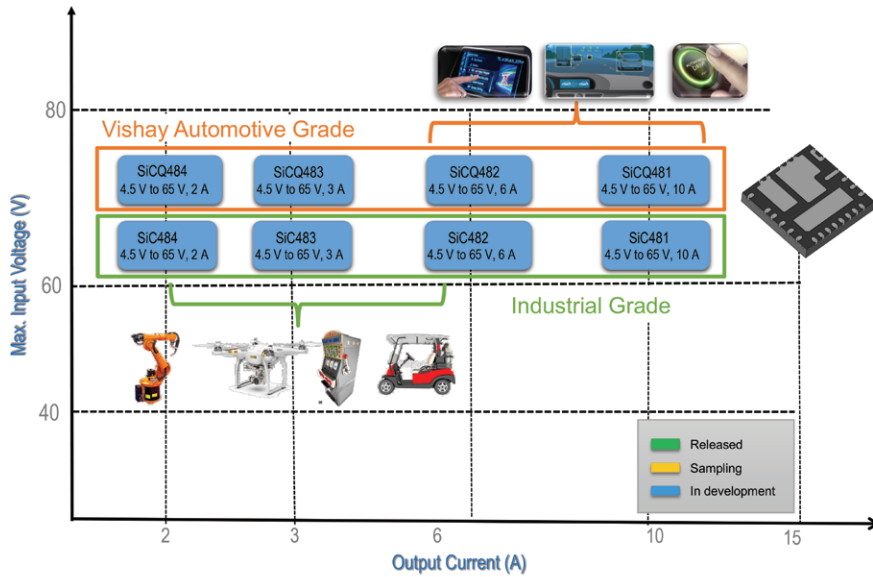
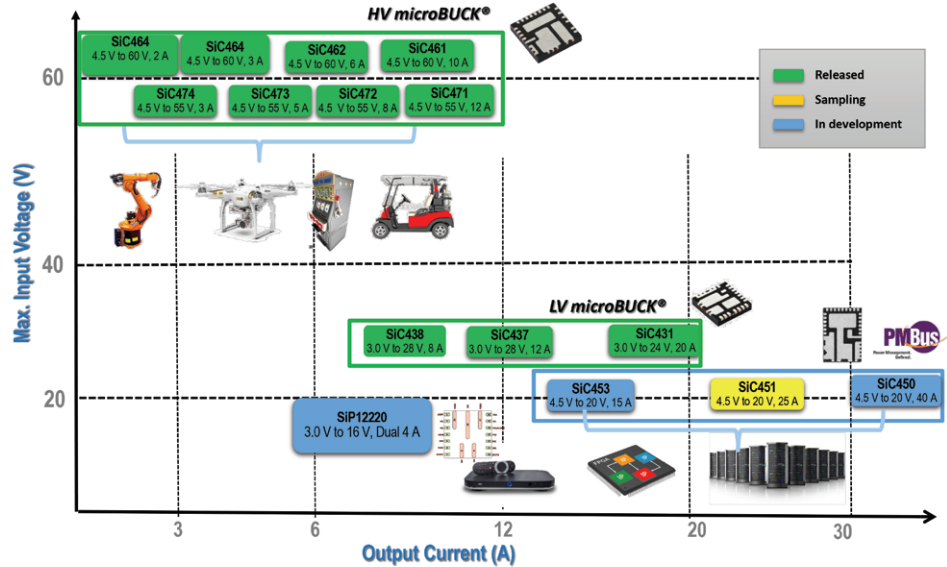
microBUCK® AND microBRICK™

Focus Products

microBUCK® Commercial

Features

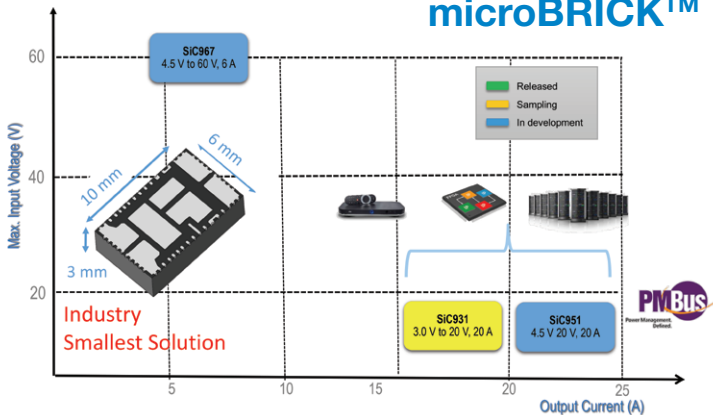
- Ultra low quiescent current
- Ultrafast transient response
- Internal regulator
- Power-saving mode
- Rugged and reliable



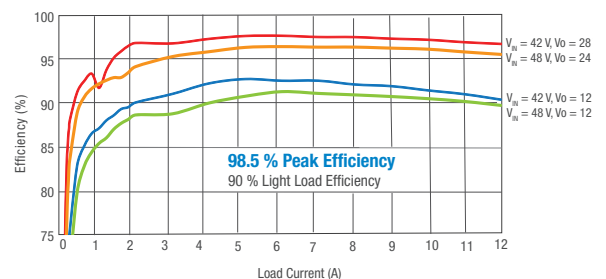
microBUCK® Automotive and Industrial

The Whole Family Offers Flexibility and Integration While Maintaining the Best Efficiency on the Market

microBRICK™



Measured Efficiency for SiC471 @ Fsw=300kHz





microBUCK® AND microBRICK™

Focus Products

microBUCK®

Family	P/N	Input Voltage	V _{out} Voltage	Maximum Current	Compensation		Features			Protections				Package
					Internal	External	PGOOD	SYNC	PMBUS	VCC-UVLO	OCP	OVP/UVP	OTP	
SiC43x	SiC438	4.5 V to 18 V	0.6 V to 0.9* V _{IN}	8 A	√	-	√	-	-	√	√	√	√	4 mm x 4 mm
	SiC437	4.5 V to 18 V		12 A	√	-	√	-	-	√	√	√	√	
	SiC431	4.5 V to 18 V		24 A	√	-	√	-	-	√	√	√	√	
SiC45x	SiC453	4.5 V to 8 V	0.3 V to 5.5 V	15 A	√	-	√	√	√	√	√	√	√	5 mm x 7 mm
	SiC451			25 A	√	-	√	√	√	√	√	√	√	
	SiC450			40 A	√	-	√	√	√	√	√	√	√	
SiC46x	SiC469	4.5 V to 60 V	0.8 V to 0.92* V _{IN}	2 A	√	-	√	-	-	√	√	√	√	5 mm x 5 mm
	SiC468			4 A	√	-	√	-	-	√	√	√	√	
	SiC467			6 A	√	-	√	-	-	√	√	√	√	
	SiC466			10 A	√	-	√	-	-	√	√	√	√	
	SiC464			2 A	-	√	√	-	-	√	√	√	√	
	SiC463			4 A	-	√	√	-	-	√	√	√	√	
	SiC462			6 A	-	√	√	-	-	√	√	√	√	
	SiC461			10 A	-	√	√	-	-	√	√	√	√	
SiC47x	SiC479	4.5 V to 55 V	0.8 V to 0.92* V _{IN}	3 A	√	-	√	-	-	√	√	√	√	5 mm x 5 mm
	SiC478			5 A	√	-	√	-	-	√	√	√	√	
	SiC477			8 A	√	-	√	-	-	√	√	√	√	
	SiC476			12 A	√	-	√	-	-	√	√	√	√	
	SiC474			3 A	-	√	√	-	-	√	√	√	√	
	SiC473			5 A	-	√	√	-	-	√	√	√	√	
	SiC472			8 A	-	√	√	-	-	√	√	√	√	
	SiC471			12 A	-	√	√	-	-	√	√	√	√	
SiC48x	SiC482	4.5 V to 55 V	0.8 V to 0.92* V _{IN}	6 A	-	√	√	-	-	√	√	√	√	5 mm x 5 mm Wettable Flank
	SiC481			10 A	-	√	√	-	-	√	√	√	√	

microBRICK™

Family	P/N	Input Voltage	V _{out} Voltage	Maximum Current	Compensation		Features			Protections				Package
					Internal	External	PGOOD	SYNC	PMBUS	VCC-UVLO	OCP	OVP/UVP	OTP	
SiC9xx	SiC931	4.5 V to 18 V	0.6 V to 0.9 x V _{in}	20 A	√		√			√	√	√	√	10 mm x 6 mm x 3 mm
	SiC951	4.5 V to 24 V		20 A	√		√	√	√	√	√	√	√	
	SiC967	4.5 V to 60 V		6 A	√		√			√	√	√	√	



Achieve **High Efficiency** While **Reducing Costs** by Using Vishay's microBUCK® and microBRICK™ Scalable DC/DC Regulators

Advantages of Vishay's microBUCK® and microBRICK™

- Compact and scalable family
- High efficiency at both light and full loads
- Ultrafast transient response
- Fully protected against voltage, current, and temperature overstress

For the Following **Applications**

- POL regulation for low power processors, network processors, DSPs, FPGAs, and ASICs
- Servers and telecom
- Computing, broadband, networking, LAN / WAN
- A/V, high density cards, storage, DSL, STB, DVR, and DTV
- Industrial power supplies
- ebike
- Automotive



Use Vishay's compact 2 A to 24 A microBUCK® regulators to efficiently power your next-generation server and telecommunications designs



To save board space, use Vishay's microBRICK™ regulators in your next industrial power supply design

Useful Links

- SiC46x and SiC47x microBUCK® Series
www.vishay.com/doc?48238
- SiC43x microBUCK® Series
www.vishay.com/doc?48283
- High Output Power Capability of the SiC46X Family
www.vishay.com/doc?48285
- Simulation Tool
vishay.transim.com



RoHS
COMPLIANT

HALOGEN
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A **WORLD OF**
SOLUTIONS™