

VRPower

Технические характеристики

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POWER ICS - VRPOWER® (DRMOS) - POWER STAGE

Part Number	Status	Description	V _{IN} Min. (V)	V _{IN} Max. (V)	Continuous Current Rating Max. (A)	Switch Freq. Max. (kHz)	Enable (Yes / No)	Monitoring Features	Protection	Light Load Mode	PWM (V)	Package	Package Size (W, L, H) (mm)
SiC546	New	40 A power stage, 4.5 V _{IN} to 24 V _{IN} , 5 V PWM with ZCD, PS4 mode	4.5	24	40	2000	No	-	UVLO	ZCD, PS4	5	PowerPAK MLP4535-22L	4.5 x 3.5 x 0.75
SiC547	New	35 A power stage, 4.5 V _{IN} to 24 V _{IN} , 5 V PWM with ZCD, PS4 mode	4.5	24	35	2000	No	-	UVLO	ZCD, PS4	5	PowerPAK MLP4535-22L	4.5 x 3.5 x 0.75
SiC638	New	50A, 4.5V - 24V, 5.0V PWM, VRPower with ZCD	2.7	24	50	1500	Y		UVLO, THDN	ZCD	5	PowerPAK MLP55-31L	5.0 x 5.0 x 0.70
SiC638A	New	50A, 4.5V - 24V, 3.3V PWM, VRPower with ZCD	2.7	24	50	1500	Y		UVLO, THDN	ZCD	5	PowerPAK MLP55-31L	5.0 x 5.0 x 0.70
SiC642	New	50 A power stage plus, 2.5 V _{IN} to 16 V _{IN} , 5 V PWM with ZCD, PS4 mode	2.5	16	50	2000	Yes		UVLO, OCP, OTP, HS-short	ZCD, PS4	5	PowerPAK MLP55-31L	5.0 x 5.0 x 0.75
SiC642A	New	50 A power stage plus, 2.5 V _{IN} to 16 V _{IN} , 3.3 V PWM with ZCD, PS4 mode	2.5	16	50	2000	Yes		UVLO, OCP, OTP, HS-short	ZCD, PS4	3.3	PowerPAK MLP55-31L	5.0 x 5.0 x 0.75
SiC647	New	50 A power stage, 4.5 V _{IN} to 16 V _{IN} , 5 V PWM with ZCD, PS4 mode	4.5	16	50	2000	no	-	UVLO	ZCD, PS4	5	PowerPAK MLP55-31L	5.0 x 5.0 x 0.75
SiC648	New	60 A smart power stage, 4.5 V _{IN} to 18 V _{IN} , 5 V PWM	4.5	18	60	2000	no	T _{MON} , I _{MON}	UVLO, OCP, OTP, HS-short	yes	5	PowerPAK MLP55-32L	5.0 x 5.0 x 0.75

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SiC648A	New	60 A smart over stage, 4.5 V _{IN} to 18 V _{IN} , 3.3 V PWM	4.5	18	60	2000	no	T _{MON} , I _{MON}	UVLO, OCP, OTP, HS-short	yes	3.3	PowerPAK MLP55-32L	5.0 x 5.0 x 0.75
SiC651	New	50 A power stage plus, 2.5 V _{IN} to 24 V _{IN} , 5 V PWM with ZCD, PS4 mode	2.5	24	50	2000	Yes		UVLO, OCP, OTP, HS-short	ZCD, PS4	5	PowerPAK MLP55-31L	5.0 x 5.0 x 0.75
SiC651A	New	50 A power stage plus, 2.5 V _{IN} to 24 V _{IN} , 3.3 V PWM with ZCD, PS4 mode	2.5	24	50	2000	Yes		UVLO, OCP, OTP, HS-short	ZCD, PS4	3.3	PowerPAK MLP55-31L	5.0 x 5.0 x 0.75
SiC652	New	55 A power stage plus, 4.5 V _{IN} to 24 V _{IN} , 5 V PWM with ZCD, PS4 mode	4.5	24	55	2000	Yes		UVLO, OCP, OTP, HS-short	ZCD, PS4	5	PowerPAK MLP55-31L	5.0 x 5.0 x 0.75
SiC652A	New	55 A power stage plus, 4.5 V _{IN} to 24 V _{IN} , 3.3 V PWM with ZCD, PS4 mode	4.5	24	55	2000	Yes		UVLO, OCP, OTP, HS-short	ZCD, PS4	3.3	PowerPAK MLP55-31L	5.0 x 5.0 x 0.75
SiC654	New	50 A Power stage plus, 2.5 V _{IN} to 24 V _{IN} , 5 V PWM with ZCD mode	2.5	24		2000	Yes		OCP, OTP, UVLO	ZCD	5	PowerPAK MLP55-31L	5 x 5 x 0.75
SiC654A	New	50 A Power stage plus, 2.5 V _{IN} to 24 V _{IN} , 3.3 V PWM with ZCD mode	2.5	24		2000	Yes		OCP, OTP, UVLO	ZCD	3.3	PowerPAK MLP55-31L	5 x 5 x 0.75
SiC657	New	50 A power stage, 4.5 V _{IN} to 24 V _{IN} , 5 V PWM with ZCD, PS4 mode	4.5	24	50	2000	No	-	UVLO, THDN	ZCD, PS4	5	PowerPAK MLP55-31L	5.0 x 5.0 x 0.75

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SiC657A	New	50 A power stage, 4.5 V _{IN} to 24 V _{IN} , 3.3 V PWM with ZCD, PS4 mode	4.5	24	50	2000	No	-	UVLO, THDN	ZCD, PS4	3.3	PowerPAK MLP55-31L	5.0 x 5.0 x 0.75
SiC660	New	60 A power stage plus, 2.5 V _{IN} to 16 V _{IN} , 5 V PWM with ZCD, PS4 mode	2.5	16		2000	Yes		OCP, OTP, UVLO	ZCD	5	PowerPAK MLP55-31L	5 x 5 x 0.75
SiC660A	New	60 A power stage plus, 2.5 V _{IN} to 16 V _{IN} , 3.3 V PWM with ZCD, PS4 mode	2.5	16		2000	Yes		OCP, OTP, UVLO	ZCD	3.3	PowerPAK LP55-31L	5 x 5 x 0.75
SiC820	New	80 A smart power stage, 4.5 V _{IN} to 16 V _{IN} , 5 V PWM with diode emulation mode	4.5	16	80	2000	No	T _{MON} , I _{MON}	UVLO, OTP, OC flag	SMOD	5	PowerPAK MLP39-65	5.0 x 6.0 x 0.75
SiC820A	New	80 A smart power stage, 4.5 V _{IN} to 16 V _{IN} , 3.3 V PWM with diode emulation mode	4.5	16	80	2000	No	T _{MON} , I _{MON}	UVLO, OTP, OC flag	SMOD	3.3	PowerPAK MLP39-65	5.0 x 6.0 x 0.75
SiC822	New	70 A smart power stage, 4.5 V _{IN} to 16 V _{IN} , 5 V PWM with diode emulation mode	4.5	16	70	2000	No	T _{MON} , I _{MON}	UVLO, OTP, OC flag	SMOD	5	PowerPAK MLP39-65	5.0 x 6.0 x 0.75
SiC822A	New	70 A smart power stage, 4.5 V _{IN} to 16 V _{IN} , 3.3 V PWM with diode emulation mode	4.5	16	70	2000	No	T _{MON} , I _{MON}	UVLO, OTP, OC flag	SMOD	3.3	PowerPAK MLP39-65	5.0 x 6.0 x 0.75
SiC825	New	80 A smart power stage, 4.5 V _{IN} to 16 V _{IN} , 5 V PWM with diode emulation mode	3.0	16		2000	Yes	T _{MON} , I _{MON}	UVLO, OTP, OC flag, OCP, HS-short	SMOD	5	PowerPAK® MLP39-65	5.0 x 6.0 x 0.75

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SiC825A	New	80 A smart power stage, 4.5 V _{IN} to 16 V _{IN} , 3.3 V PWM with diode emulation mode	3.0	16		2000	Yes	T _{MON} , I _{MON}	UVLO, OTP, OC flag, OCP, HS-short	SMOD	3.3	PowerPAK® MLP39-65	5.0 x 6.0 x 0.75
SiC830	New	80 A smart power stage, 4.5 V _{IN} to 19 V _{IN} , 5 V PWM with diode emulation mode	4.5	19	80	2000	No	T _{MON} , I _{MON}	UVLO, OTP, OC flag	SMOD	5	PowerPAK MLP39-65	5.0 x 6.0 x 0.75
SiC830A	New	80 A smart power stage, 4.5 V _{IN} to 19 V _{IN} , 3.3 V PWM with diode emulation mode	4.5	19	80	2000	No	T _{MON} , I _{MON}	UVLO, OTP, OC flag	SMOD	3.3	PowerPAK MLP39-65	5.0 x 6.0 x 0.75
SiC832	New	70 A smart power stage, 4.5 V _{IN} to 21 V _{IN} , 5 V PWM with diode emulation	4.5	21	70	2000	No	T _{MON} , I _{MON}	UVLO, OTP, OC flag	SMOD	5	PowerPAK MLP39-65	5.0 x 6.0 x 0.75
SiC832A	New	70 A smart power stage, 4.5 V _{IN} to 21 V _{IN} , 3.3 V PWM with diode emulation	4.5	21	70	2000	No	T _{MON} , I _{MON}	UVLO, OTP, OC flag	SMOD	3.3	PowerPAK MLP39-65	5.0 x 6.0 x 0.75
SiC840	New	100 A smart power stage, 4.5 V _{IN} to 16 V _{IN} , 5 V PWM with diode emulation mode	4.5	16	100	2000	No	T _{MON} , I _{MON}	UVLO, OTP, OC flag	SMOD	5	PowerPAK MLP39-65	5.0 x 6.0 x 0.75
SiC840A	New	100 A smart power stage, 4.5 V _{IN} to 16 V _{IN} , 3.3 V PWM with diode emulation mode	4.5	16	100	2000	No	T _{MON} , I _{MON}	UVLO, OTP, OC flag	SMOD	3.3	PowerPAK MLP39-65	5.0 x 6.0 x 0.75
SiC521	Active	30 A power stage, 4.5 V _{IN} to 18 V _{IN} , 5 V PWM with ZCD mode	4.5	18	30	1500	No	-	UVLO, THDN	ZCD	5	PowerPAK MLP4535-22L	4.5 x 3.5 x 0.75

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SiC521A	Active	30 A power stage, 4.5 V _{IN} to 18 V _{IN} , 3.3 V PWM with ZCD mode	4.5	18	30	1500	No	-	UVLO, THDN	ZCD	3.3	PowerPAK MLP4535-22L	4.5 x 3.5 x 0.75
SiC530	Active	30 A power stage, 4.5 V _{IN} to 18 V _{IN} , 5 V PWM with ZCD, PS4 mode	4.5	18	30	2000	No	-	UVLO, THDN	ZCD, PS4	5	PowerPAK MLP4535-22L	4.5 x 3.5 x 0.75
SiC531	Active	30 A power stage, 4.5 V _{IN} to 24 V _{IN} , 5 V PWM with ZCD mode	4.5	24	30	1500	No	-	UVLO, THDN	ZCD	5	PowerPAK MLP4535-22L	4.5 x 3.5 x 0.75
SiC531A	Active	30 A power stage, 4.5 V _{IN} to 24 V _{IN} , 3.3 V PWM with ZCD mode	4.5	24	30	1500	No	-	UVLO, THDN	ZCD	3.3	PowerPAK MLP4535-22L	4.5 x 3.5 x 0.75
SiC532	Active	30 A power stage, 4.5 V _{IN} to 24 V _{IN} , 5 V PWM with ZCD, PS4 mode	4.5	24	30	2000	No	-	UVLO, THDN	ZCD, PS4	5	PowerPAK MLP4535-22L	4.5 x 3.5 x 0.75
SiC533	Active	35 A power stage, 4.5 V _{IN} to 24 V _{IN} , 5 V PWM with ZCD, PS4 mode	4.5	24	35	2000	No	-	UVLO, THDN	ZCD, PS4	5	PowerPAK MLP4535-22L	4.5 x 3.5 x 0.75
SiC534	Active	30 A power stage, 4.5 V _{IN} to 24 V _{IN} , 5 V PWM with ZCD, PS4 mode	4.5	24	30	2000	No	-	UVLO, THDN	ZCD, PS4	5	PowerPAK MLP4535-22L	4.5 x 3.5 x 0.75
SiC544	Active	40 A power stage, 4.5 V _{IN} to 24 V _{IN} , 5 V PWM with ZCD, PS4 mode	4.5	24	40	2000	No	-	UVLO	ZCD, PS4	5	PowerPAK MLP4535-22L	4.5 x 3.5 x 0.75
SiC545	Active	30 A power stage, 4.5 V _{IN} to 24 V _{IN} , 5 V PWM with ZCD, PS4 mode	4.5	24	30	2000	No	-	UVLO	ZCD, PS4	5	PowerPAK MLP4535-22L	4.5 x 3.5 x 0.75
SiC620	Active	60 A power stage, 4.5 V _{IN} to 18 V _{IN} , 5 V PWM with ZCD mode	4.5	18	60	1500	Yes	-	UVLO, THDN	ZCD	5	PowerPAK MLP55-31L	5.0 x 5.0 x 0.75

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SiC620A	Active	60 A power stage, 4.5 V _{IN} to 18 V _{IN} , 3.3 V PWM with ZCD mode	4.5	18	60	1500	Yes	-	UVLO, THDN	ZCD	3.3	PowerPAK MLP55-31L	5.0 x 5.0 x 0.75
SiC620AR	Active	60 A power stage, 4.5 V _{IN} to 18 V _{IN} , 3.3 V PWM with ZCD mode, dual side cooling	4.5	18	60	1500	Yes	-	UVLO, THDN	ZCD	3.3	PowerPAK MLP55-31L double cooling	5.0 x 5.0 x 0.60
SiC620R	Active	60 A power stage, 4.5 V _{IN} to 18 V _{IN} , 5 V PWM with ZCD mode, dual side cooling	4.5	18	60	1500	Yes	-	UVLO, THDN	ZCD	5	PowerPAK MLP55-31L double cooling	5.0 x 5.0 x 0.60
SiC621	Active	60 A power stage, 4.5 V _{IN} to 18 V _{IN} , 5 V PWM with ZCD, PS4 mode	4.5	18	60	2000	No	-	UVLO, THDN	ZCD, PS4	5	PowerPAK MLP55-31L	5.0 x 5.0 x 0.75
SiC631	Active	50A, 4.5V - 24V, 5.0V PWM, VRPower with ZCD, with PS4 mode	4.5	24	50	2000	Y	-	UVLO, THDN	ZCD	5	PowerPAK MLP55-31L	5.0 x 5.0 x 0.70
SiC632	Active	50 A power stage, 4.5 V _{IN} to 24 V _{IN} , 5 V PWM with ZCD mode	4.5	24	50	1500	Yes	-	UVLO, THDN	ZCD	5	PowerPAK MLP55-31L	5.0 x 5.0 x 0.75
SiC632A	Active	50 A power stage, 4.5 V _{IN} to 24 V _{IN} , 3.3 V PWM with ZCD mode	4.5	24	50	1500	Yes	-	UVLO, THDN	ZCD	3.3	PowerPAK MLP55-31L	5.0 x 5.0 x 0.75
SiC634	Active	50 A power stage, 4.5 V _{IN} to 24 V _{IN} , 5 V PWM with ZCD, PS4 mode	4.5	24	50	2000	No	-	UVLO, THDN	ZCD, PS4	5	PowerPAK MLP55-31L	5.0 x 5.0 x 0.75
SiC638	Active	50 A power stage, 2.7 V _{IN} to 24 V _{IN} , 5 V PWM with ZCD mode	2.7	24	50	1500	Yes	-	UVLO, THDN	ZCD	5	PowerPAK MLP55-31L	5.0 x 5.0 x 0.75
SiC638A	Active	50 A power stage, 2.7 V _{IN} to 24 V _{IN} , 3.3 V	2.7	24	50	1500	Yes	-	UVLO, THDN	ZCD	3.3	PowerPAK MLP55-31L	5.0 x 5.0 x 0.75

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		PWM with ZCD mode											
SiC639	Active	50 A power stage, 2.7 V _{IN} to 24 V _{IN} , 5 V PWM with ZCD mode	2.7	24	50	1500	Yes	-	UVLO, THDN	ZCD	5	PowerPAK MLP55-31L	5.0 x 5.0 x 0.75
SiC639A	Active	50 A power stage, 2.7 V _{IN} to 24 V _{IN} , 3.3 V PWM with ZCD mode	2.7	24	50	1500	Yes	-	UVLO, THDN	ZCD	3.3	PowerPAK MLP55-31L	5.0 x 5.0 x 0.75
SiC645	Active	60 A smart power stage, 4.5 V _{IN} to 18 V _{IN} , 5 V PWM with diode emulation mode	4.5	18	60	2000	No	I _{MON} , T _{MON}	UVLO, OCP, OTP, HS-short	Diode emulation	5	PowerPAK MLP55-32L double cooling	5.0 x 5.0 x 0.60
SiC645A	Active	60 A smart power stage, 4.5 V _{IN} to 18 V _{IN} , 3.3 V PWM with diode emulation mode	4.5	18	60	2000	No	I _{MON} , T _{MON}	UVLO, OCP, OTP, HS-short	Diode emulation	3.3	PowerPAK MLP55-32L double cooling	5.0 x 5.0 x 0.60
SiC673	Active	50 A, 4.5 V to 24 V, 5 V PWM, Power stage with ZCD, with PS4 mode	4.5	24		2000	Yes	None	UVLO	ZCD, PS4	5	PowerPAK MLP55-31L	5 x 5 x 0.7
SiC788	Active	50 A power stage, 4.5 V _{IN} to 18 V _{IN} , 5 V PWM with diode emulation mode	4.5	18	50	1000	Yes	-	UVLO, THDN	Diode emulation	5	PowerPAK MLP66-40L	6.0 x 6.0 x 0.75
SiC788A	Active	50 A power stage, 4.5 V _{IN} to 18 V _{IN} , 3.3 V PWM with diode emulation mode	4.5	18	50	1000	Yes	-	UVLO, THDN	Diode emulation	3.3	PowerPAK MLP66-40L	6.0 x 6.0 x 0.75
SiC789	Active	60 A power stage, 4.5 V _{IN} to 18 V _{IN} , 5 V PWM with diode emulation mode	4.5	18	60	1000	Yes	-	UVLO, THDN	Diode emulation	5	PowerPAK MLP66-40L	6.0 x 6.0 x 0.75

Part Number	Status	Description	V _{IN} Min. (V)	V _{IN} Max. (V)	Continuous Current Rating Max. (A)	Switch Freq. Max. (kHz)	Enable (Yes / No)	Monitoring Features	Protection	Light Load Mode	PWM (V)	Package	Package Size (W, L, H) (mm)
SiC789A	Active	60 A power stage, 4.5 V _{IN} to 18 V _{IN} , 3.3 V PWM with diode emulation mode	4.5	18	60	1000	Yes	-	UVLO, THDN	Diode emulation	3.3	PowerPAK MLP66-40L	6.0 x 6.0 x 0.75
SiP2204	Active	0.5 A power stage, 10 V _{IN} to 24 V _{IN} , 3.3 V and 5.5 V PWM with - mode	10.0	24	0.5	5000	YES	-	UVLO	-	3.3 and 5	QFN32-55	5.0 x 5.0 x 0.85

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Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
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