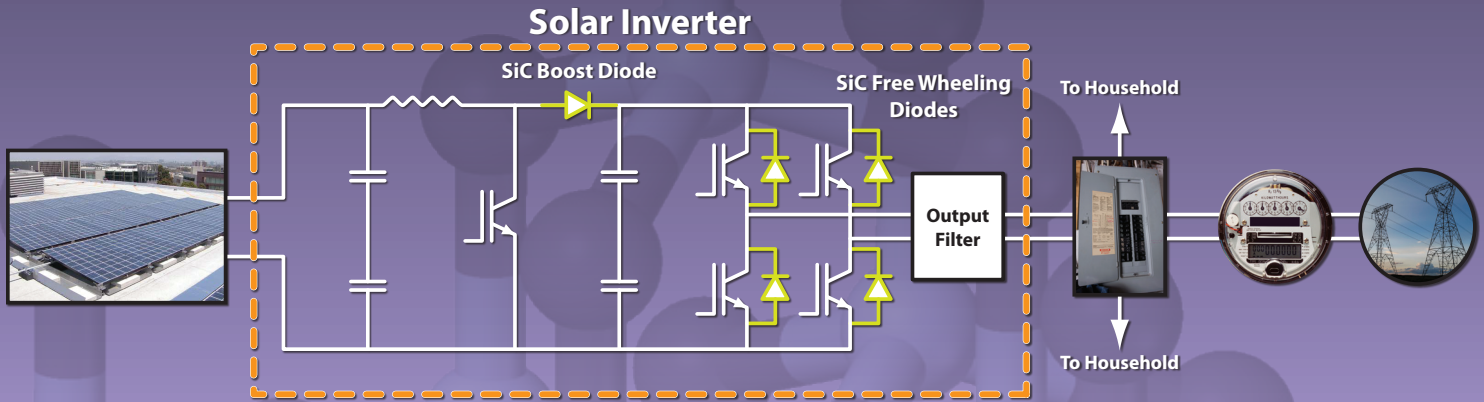


Introducing New 1200 V *Z-Rec*[™] SiC Family of Schottky Diodes

For Inverter, Motor Drive and UPS Applications

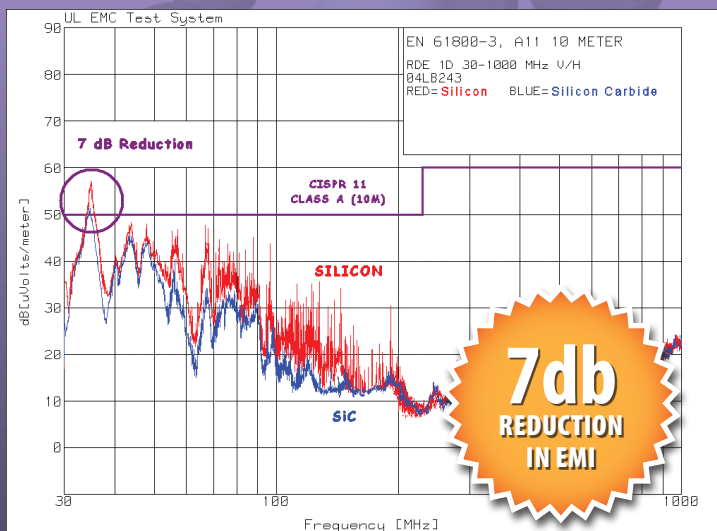


FEATURES

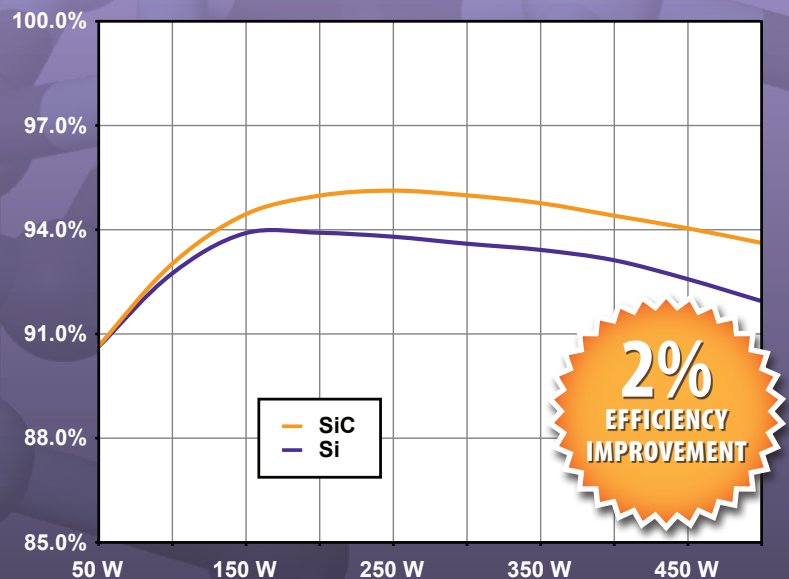
- No reverse recovery / No forward recovery leading to lower switching losses
- Temperature independent switching behavior
- Higher surge current capability
- Increased Avalanche ruggedness

Cree extends leadership in SiC Power products offering a wide portfolio of new products with higher Surge Current capability and increased avalanche ruggedness optimized for performance and cost.

EMI Comparison of Si PIN vs. SiC



Efficiency Comparison of Si PIN vs. SiC in Boost Stage



Cree SiC Schottky Products in Die and Discrete

Device Selection Guide (for reference only)

Die P/N	Discrete P/N	V _{RRM} (V)	I _F (A)	For use with IGBT (A)	Availability
CPW3-0600-S004B	C3D04060A	600	4	8 or 10	NOW
	C3D04060E				
	C3D04060F				
CPW2-0600-S006B	C3D06060A	600	6	10 or 12	NOW
	C3D06060G				
CPW2-0600-S008B	C3D08060A	600	8	15 or 20	NOW
	C3D08060G				
CPW2-0600-S010B	C3D10060A	600	10	20 or 25	NOW
	C3D10060G				
N/A	C3D20060D ¹	600	20	40 or 50	NOW
CPW4-1200-S002B	C4D02120A	1200	2	4 or 6	NEW
	C4D02120E	1200	2	4 or 6	coming soon
CPW2-1200-S005B	C2D05120A	1200	5	10 or 12	NOW
CPW4-1200-S005B	C4D05120E	1200	5	10 or 12	coming soon
CPW4-1200-S008B	C4D08120A	1200	7.5	15 or 17	coming soon
CPW2-1200-S010B	C2D10120A	1200	10	20 or 25	NOW
N/A	C2D10120D ²	1200	10	20 or 25	NOW
CPW4-1200-S010B	C4D10120A	1200	10	20 or 25	NEW
	C4D10120E	1200	10	10 or 12	coming soon
N/A	C4D10120D ³	1200	10	10 or 12	NEW
CPW4-1200-S015B	C4D15120A	1200	15	30 or 35	coming soon
N/A	C2D20120D ⁴	1200	20	40 or 50	NOW
CPW4-1200-S020B	C4D20120A	1200	20	40 or 50	NEW
N/A	C4D20120D ⁵	1200	20	40 or 50	NEW
N/A	C4D30120D ⁶	1200	30	55 or 60	coming soon
N/A	C4D40120D ⁷	1200	40	75 or 80	coming soon
CPW2-1200-S050B	N/A	1200	50	75 or 100	NOW
CPW3-1700-S010B	N/A	1700	10	20 or 25	NOW
CPW3-1700-S025B	N/A	1700	25	40 or 50	NOW

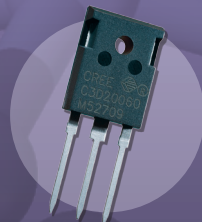
¹Two CPW2-0600-S010B chips in parallel ²Two CPW4-1200-S005B chips in parallel ³Two CPW4-1200-S010B chips in parallel ⁴Two CPW4-1200-S020B chips in parallel

⁵Two CPW2-1200-S005B chips in parallel ⁶Two CPW2-1200-S010B chips in parallel ⁷Two CPW4-1200-S015B chips in parallel

Package Code:



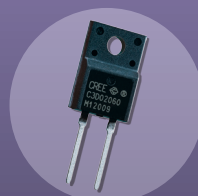
A: TO-220



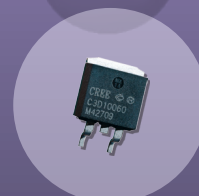
D: TO-247
(TO-3P)



E: TO-252
D-PAK



F: TO-220
Fully Isolated



G: TO-263
D²PAK

For more information, please visit: www.cree.com/products/power or contact power_sales@cree.com

RoHS, REACH, and Halogen-Free compliant

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