



WeEn
WeEn Semiconductors

Power Efficiency
for A Cooler Planet

03

Power Diodes

SCHOTTKY RECTIFIER

CASCO DIODE

HYBIRD RECTIFIER

BRIDGE RECTIFIER

3-PHASE BRIDGE RECTIFIER

AUTO GRADE RECTIFIER

ULTRAFAST RECTIFIER

HYPERFAST RECTIFIER

STANDARD RECTIFIER

SCHOTTKY RECTIFIER
Power schottky diodes for SMPS
output rectification

Types in **bold blue** represent new products
Types in **bold red italic** represent products in development

V_{RRM} (V)	$I_{F(AV)}$ (A)	V_F (typ.) @ 25C (V)	V_F (typ.) @ 125C (V)	@ I_F per diode (A)	TO220	TO220F	TO263	TO252	IITO220-2L	TO247-3L
										
45	2 x 10	0.48	0.42	10	WN3S20H45C	WN3S20H45CX				
45	2 x 15	0.53	0.48	15	WN3S3045C	WN3S3045CX	WN3S3045CB			
45	2 x 15	0.50	0.44	15	WN3S30H45C	WN3S30H45CX	WN3S30H45CB			
60	2x 15	0.62	0.61	15	WN3S3060C	WN3S3060CX	WN3S3060CB			
60	2x 15	0.57	0.55	15	WN3S30H60C	WN3S30H60CX	WN3S30H60CB			
60	20	0.69	0.68	20				WN3S2060D		
60	30	0.78	0.77	30				WN3S3060D		
65	2 x 5	0.63	0.61	5				WN3S10H65CD		
100	2 x 5	0.67	0.62	5	WN3S10100C	WN3S10100CX	WN3S10100CB	WN3S10100CD		
100	2 x 10	0.90	0.76	10	WN3S20S100C	WN3S20S100CX	WN3S20S100CB	WN3S20S100CD		
100	2 x 10	0.89	0.73	10	WNS20S100C	WNS20S100CX	WNS20S100CB			
100	2 x 10	0.70	0.63	10	WNS20H100C		WNS20H100CB			
100	2 x 10	0.68	0.63	10	WN3S20H100C	WN3S20H100CX	WN3S20H100CB			
100	2 x 15	0.64	0.60	15	WNS30H100C		WNS30H100CB			
100	2 x 15	0.70	0.64	15	WN3S30100C	WN3S30100CX	WN3S30100CB			
100	2 x 15	0.66	0.62	15	WN3S30H100C	WN3S30H100CX				
100	2 x 20	0.71	0.64	20	WNS40100C					
100	2 x 20	0.73	0.67	20	WN3S40100C	WN3S40100CX	WN3S40100CB			
100	2 x 20	0.67	0.63	20	WNS40H100C		WNS40H100CB			
100	2 x 20	0.67	0.63	20	WN3S40H100C	WN3S40H100CX	WN3S40H100CB			
100	20	0.75	0.68	20				WN3S20100D		
100	30	0.86	0.76	30				WN3S30100D		
120	2 x 15	0.95	0.71	15	WN3S30H120C	WN3S30H120CX	WN3S30H120CBT			
120	2 x 20	0.95	0.72	20	WN3S40120C	WN3S40120CX	WN3S40120CBT			
150	2 x 5	0.81	0.68	5	WN3S10S150CT	WN3S10S150CXT	WN3S10S150CBT	WN3S10S150CDT		
150	2 x 5	0.89	0.63	5	WN3S10H150C	WN3S10H150CX				
150	2 x 10	0.84	0.72	10	WN3S20150CT	WN3S20150CXT	WN3S20150CBT	WN3S20150CDT		
150	2 x 10	1.06	0.68	10	WN3S20H150C	WN3S20H150CX				
150	2 x 15	0.81	0.67	15	WN3S30H150CT	WN3S30H150CXT	WN3S30H150CBT			
150	2 x 20	0.83	0.71	20	WN3S40150CT	WN3S40150CXT	WN3S40150CBT			
150	20	0.87	0.75	20				WN3S20150DT		
150	30	0.89	0.78	30				WN3S30150DT		
170	2 x 15	0.81	0.67	15			WN3S30H170CBT			
170	2 x 20	0.84	0.71	20			WN3S40170CBT			
170	2 x 30	0.83	0.71	30						WN3S61170CWT WN3S80170CWT
170	2 x 40	0.80	0.67	40						
200	2 x 5	0.83	0.70	5	WN3S10S200CT	WN3S10S200CXT	WN3S10S200CBT	WN3S10S200CDT		
200	2 x 5	0.82	0.69	5	WN3S10200CT			WN3S10200CDT		
200	2 x 5	0.81	0.68	5				WN3S10H200CDT		
200	2 x 10	0.86	0.75	10	WN3S20200CT	WN3S20200CXT	WN3S20200CBT	WN3S20200CDT		
200	2 x 15	0.88	0.77	15	WN3S30S200CT	WN3S30S200CXT	WN3S30S200CBT			
200	2 x 15	0.85	0.73	15			WN3S30200CBT			
200	2 x 20	0.87	0.75	20	WN3S40200CT	WN3S40200CXT	WN3S40200CBT			WN3S40200CWT
200	15	0.88	0.77	15		WN3S15200XT			WN3S15200YT	
200	20	0.90	0.80	20				WN3S20200DT		
200	30	0.93	0.8	30				WN3S30200DT		

CASCO DIODES
employing series die technology for the
lowest possible t_{rr}

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Casco Diodes for Continuous Current Mode PFC

V_{RRM} (V)	$I_{F(AV)}$ (A)	V_F (typ)@150C (V)	@ I_F (A)	t_{rr} (typ)@25C (us)	TO220F-2L
					
600	8	2	8	12.5	BYC58X-600