Rectifier Diodes

Our comprehensive range of rectifier diodes offers class leading performance and reliability. Devices are available with blocking voltages from 200V up to 7.2kV. Optimised to offer low conduction losses, these devices are ideally suited to line frequency applications up to 400Hz including input rectifiers for variable speed drives, traction converters, trackside substations, welding and DC power supplies. Featuring high temperature alloyed die construction, these devices offer low thermal impedance with high overload capacity and are designed to survive even the most arduous applications.

The latest additions to the IXYS UK Rectifier Diode family are the new 38mm and 50mm dia die Wespack Rectifier Diodes and the new 96mm large area rectifier diodes. These new designs are constructed using low temperature sintering technology and have an improved package design for maximum power to package ratio, as well as better thermal and electromechanical performance. The Wespack parts are available in current ratings up to 5332A and voltage ratings up to 3000V. The 96mm parts are available in current ratings up to 12100A and voltage ratings up to 6000V

Also now available is a new 1263A rated M24 stud based assembly with voltage grades up to 2500V.

Stud Types

Part No.	V_{RRM}	I_{FAV}	I_{FSM}	I^2t	V_{T0}	r_T	T_{JM}	R_{thJC}		Fig. No.	Package style
		T_C = 55°C	10 ms ½ sine V_R - ≤ 60% V_{RRM}		@T_{JM}			d.c. 180° sine	120° Rect.		Outlines on pages O-01...O-35
	V	A	A	A^2s	V	mΩ	°C	K/W	K/W		
W0428RE250	2500	428	5500	151 x 10^3	0.926	0.739	150	0.1300	0.1530	W39	
W0428RE280	2800	428	5500	151 x 10^3	0.926	0.739	150	0.1300	0.1530	W39	
W0428RE320	3200	428	5500	151 x 10^3	0.926	0.739	150	0.1300	0.1530	W39	
W0428RF250	2500	428	5500	151 x 10^3	0.926	0.739	150	0.1300	0.1530	W24	
W0428RF280	2800	428	5500	151 x 10^3	0.926	0.739	150	0.1300	0.1530	W24	
W0428RF320	3200	428	5500	151 x 10^3	0.926	0.739	150	0.1300	0.1530	W24	
W0428SE250	2500	428	5500	151 x 10^3	0.926	0.739	150	0.1300	0.1530	W39	
W0428SE280	2800	428	5500	151 x 10^3	0.926	0.739	150	0.1300	0.1530	W39	
W0428SE320	3200	428	5500	151 x 10^3	0.926	0.739	150	0.1300	0.1530	W39	
W0428SF250	2500	428	5500	151 x 10^3	0.926	0.739	150	0.1300	0.1530	W24	
W0428SF280	2800	428	5500	151 x 10^3	0.926	0.739	150	0.1300	0.1530	W24	
W0428SF320	3200	428	5500	151 x 10^3	0.926	0.739	150	0.1300	0.1530	W24	
W0503RC160	1600	503	5500	151 x 10^3	0.990	0.740	180	0.1300	0.1530	W24	
W0503RC200	2000	503	5500	151 x 10^3	0.990	0.740	180	0.1300	0.1530	W24	
W0503RC240	2400	503	5500	151 x 10^3	0.990	0.740	180	0.1300	0.1530	W24	
W0503SC160	1600	503	5500	151 x 10^3	0.990	0.740	180	0.1300	0.1530	W24	
W0503SC200	2000	503	5500	151 x 10^3	0.990	0.740	180	0.1300	0.1530	W24	
W0503SC240	2400	503	5500	151 x 10^3	0.990	0.740	180	0.1300	0.1530	W24	
W0735RA120	1200	735	9000	405 x 10^3	0.790	0.342	190	0.1300	0.1530	W23	
W0735RA150	1500	735	9000	405 x 10^3	0.790	0.342	190	0.1300	0.1530	W23	
W0735SA120	1200	735	9000	405 x 10^3	0.790	0.342	190	0.1300	0.1530	W23	
W0735SA150	1500	735	9000	405 x 10^3	0.790	0.342	190	0.1300	0.1530	W23	
W1263YC200KER	2000	675	11000	405 x 10^3	0.870	0.330	175	0.1249	0.1359	W114	
W1263YC250KER	2500	675	11000	405 x 10^3	0.870	0.330	175	0.1249	0.1359	W114	
W1263YC200KES	2000	675	11000	405 x 10^3	0.870	0.330	175	0.1249	0.1359	W114	
W1263YC250KES	2500	675	11000	405 x 10^3	0.870	0.330	175	0.1249	0.1359	W114	

W23 Weight 250 g

W24 Weight 250 g

W114 Weight 650 g

W39 Weight 250 g