HP Sonic-FRDs - Capsule Types

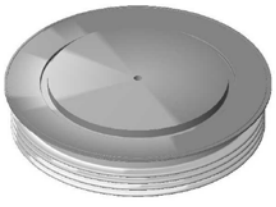
WESTCODE

Introducing a world-leading class of ultra fast and ultra soft recovery diode available from 1.7 kV to 4.5 kV in current ratings from 300 A to 2500 A. These diodes incorporate a unique manufacturing process and lifetime control to offer a class leading trade-off between conduction and switching loses. The wide safe operating area (SOA) makes them ideal as freewheeling diodes for snubberless IGBT and IGCT applications. In fact, any application which requires a fast, low loss diode. For example, traction, medium voltage drives, induction heating and pulsed power applications.

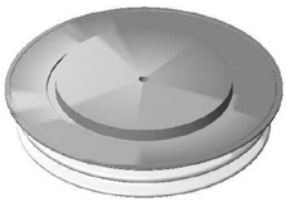
Type Part No. ➢ New	V_{RRM} V	I_{FAV} T_K = 55°C A	I_{FSM} 10 ms ½ sine $V_R \leq 60\% V_{RRM}$ A	I^2t A²s	Typ. Reverse Recovery Parameters T_{JM} (50% Chord) I_{rm} A	t_{rr} µs	Q_{ra} µC	@I_{FM} A	@-di_F/dt A/µs	V_{T0} @T_{JM} V	r_T @T_{JM} mΩ	T_{JM} °C	R_{thJK} 180° Sine K/W	Fig. No.
E0300YH400	4000	277	2630	34.6×10^3	605	0.75	245	300	2000	2.170	3.800	150	0.073	W3
E0300YH450	4500	277	2630	34.6×10^3	605	0.75	245	300	2000	2.170	3.800	150	0.073	W3
E0400YH200	2000	348	3550	63.0×10^3	570	0.75	175	400	1500	1.768	2.286	150	0.073	W3
E0400YH250	2500	348	3550	63.0×10^3	570	0.75	175	400	1500	1.768	2.286	150	0.073	W3
E0900NC400	4000	969	15270	1.17×10^6	1340	2.20	1440	900	2000	2.140	1.150	150	0.020	W5
E0900NC450	4500	969	15270	1.17×10^6	1340	2.20	1440	900	2000	2.140	1.150	150	0.020	W5
➢ **E0900NH400**	4000	969	15270	1.17×10^6	1340	2.20	1440	900	2000	2.140	1.150	150	0.020	W47
➢ **E0900NH450**	4500	969	15270	1.17×10^6	1340	2.20	1440	900	2000	2.140	1.150	150	0.020	W47
E1500NC200	2000	1557	15180	1.15×10^6	1450	2.30	1550	1500	2000	1.670	0.358	150	0.020	W5
E1500NC250	2500	1557	15180	1.15×10^6	1450	2.30	1550	1500	2000	1.670	0.358	150	0.020	W5
➢ **E1500NH200**	2000	1557	15180	1.15×10^6	1450	2.30	1550	1500	2000	1.670	0.358	150	0.020	W47
➢ **E1500NH250**	2500	1557	15180	1.15×10^6	1450	2.30	1550	1500	2000	1.670	0.358	150	0.020	W47
E1500VF400	4000	1918	23600	2.78×10^6	1550	2.50	1940	1500	2000	2.491	0.277	150	0.013	W43
E1500VF450	4500	1918	23600	2.78×10^6	1550	2.50	1940	1500	2000	2.491	0.277	150	0.013	W43
➢ **E1500NC36P**	3600	1280	17050	1.45×10^6	1425	2.80	1880	1000	1000	1.417	0.656	140	0.019	W5
➢ **E1500NC42P**	4200	1280	17050	1.45×10^6	1425	2.80	1880	1000	1000	1.417	0.656	140	0.019	W5
➢ **E1500NC48P**	4800	1280	17050	1.45×10^6	1425	2.80	1880	1000	1000	1.417	0.656	140	0.019	W5
➢ **E1500NH36P**	3600	1280	17050	1.45×10^6	1425	2.80	1880	1000	1000	1.417	0.656	140	0.019	W47
➢ **E1500NH42P**	4200	1280	17050	1.45×10^6	1425	2.80	1880	1000	1000	1.417	0.656	140	0.019	W47
➢ **E1500NH48P**	4800	1280	17050	1.45×10^6	1425	2.80	1880	1000	1000	1.417	0.656	140	0.019	W47
E2000NC140	1400	1568	15000	1.13×10^6	1870	1.00	935	2000	4000	1.770	0.350	150	0.020	W5
E2000NC170	1700	1568	15000	1.13×10^6	1870	1.00	935	2000	4000	1.770	0.350	150	0.020	W5
➢ **E2000NH140**	1400	1568	15000	1.13×10^6	1870	1.00	935	2000	4000	1.770	0.350	150	0.020	W47
➢ **E2000NH170**	1700	1568	15000	1.13×10^6	1870	1.00	935	2000	4000	1.770	0.350	150	0.020	W47
E2400TC400	4000	2227	25600	3.29×10^6	2400	1.12	1330	2400	4000	2.039	0.598	150	0.008	W28
E2400TC450	4500	2227	25600	3.29×10^6	2400	1.12	1330	2400	4000	2.039	0.598	150	0.008	W28
E2500VF200	2000	2516	28600	4.10×10^6	1750	1.40	1350	2500	3000	1.628	0.205	150	0.013	W43
E2500VF250	2500	2516	28600	4.10×10^6	1750	1.40	1350	2500	3000	1.628	0.205	150	0.013	W43

W3 Weight 140 g

W5 Weight 510 g



W28 Weight 1230 g



W43 Weight 800 g

W47 Weight 250 g

Outlines on pages O-01...O-24