

High Power Sonic FRD's - Capsule Types

Introducing a world-leading class of ultra fast and ultra soft recovery diode available from 1.7kV to 5.2kV in current ratings from 300 to 2500A. These diodes incorporate a unique manufacturing process and lifetime control to offer a class leading trade-off between conduction and switching losses. 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		V_{RRM}	I_{FAV} $T_K=55^\circ\text{C}$	I_{FSM} 10ms ½ sine $V_R \leq 60\% V_{RRM}$	I^2t $V_R \leq 60\% V_{RRM}$	Typ. Reverse Recovery Parameters T_{JM} (50% Chord)					V_{T0} r_T @ T_{JM}	T_{JM}	R_{thJK} 180° Sine	Fig. No.	
Part No.	Old Part No.	V	A	A	A^2s	I_{rm} A	t_{rr} μs	Q_r μC	@ I_{FM} A	@ $-di_F/dt$ A/ μs	V	$m\Omega$	$^\circ\text{C}$	K/W	
E0300YH450	N/A	4500	277	2630	34.58×10^3	605	0.75	245	300	2000	2.17	3.80	150	0.073	W3
E0300YH520	N/A	5200	277	2630	34.58×10^3	605	0.75	245	300	2000	2.17	3.80	150	0.073	W3
E0900NC450	N/A	4500	969	15270	1.17×10^6	1340	2.20	1440	900	2000	2.14	1.15	150	0.020	W5
E0900NC520	N/A	5200	969	15270	1.17×10^6	1340	2.20	1440	900	2000	2.14	1.15	150	0.020	W5
E1500NC200	N/A	2000	1557	15180	1.15×10^6	1450	2.30	1550	1500	2000	1.67	0.36	150	0.020	W5
E1500NC250	N/A	2500	1557	15180	1.15×10^6	1450	2.30	1550	1500	2000	1.67	0.36	150	0.020	W5
E1500VF450	N/A	4500	1995	23600	2.78×10^6	1730	3.00	2700	1500	2000	2.35	0.27	150	0.013	W6
E2500VF200	N/A	2000	2516	28600	4.10×10^6	1750	1.40	1350	2500	3000	1.63	0.21	150	0.013	W6
E2500VF250	N/A	2500	2516	28600	4.10×10^6	1750	1.40	1350	2500	3000	1.63	0.21	150	0.013	W6
Dev> EX117NC170	N/A	1700	Product Under Development - Please contact Westcode for further details											W5	