

Fast Recovery Diodes - Stud Types

Product Line of

WESTCODE

An IXYS Company

Fast Recovery Diodes are an essential partner to all fast switching devices. Our soft recovery diodes are available with a range of reverse recovery characteristics tailored to meet the requirements of both freewheeling and snubber applications. These devices are available with blocking voltages up to 6kV 3770A. Stud types have ratings to 2.5kV and 334A.

Type	V_{RRM} V	I_{FAV} A @ $T_c = 55^\circ\text{C}$	$I_{Fmax.}$ (@ T_{sink}) A $^\circ\text{C}$		Typ. Reverse Recovery charge & Typ. Reverse Recovery time @ T_J Max (50% Chord) Q_{rr} μC t_{rr} μs @ I_{FM} A di/dt A/ μs				I_{FSM} 10ms A $V_{rr} \leq 60\% V_{RRM}$	V_F at I_F @ T_{Jmax} V A		T_{Jmax} $^\circ\text{C}$	R_{thJC} K/W	Fig.
SM20-25MCN094 SM20-25MCR094	1600-2500 1600-2500	130 130	170 170	45 45	240 240	2.60 2.60	1000 1000	150 150	2240 2240	1.72 1.72	280 280	125 125	0.3 0.3	20
SM12-18PHN100 SM12-18PHR100	1200-1800 1200-1800	139 139	175 175	48 48	68 68	1.00 1.00	1000 1000	100 100	2450 2450	1.60 1.60	280 280	125 125	0.3 0.3	21
SM20-25PCN134 SM20-25PCR134	2000-2500 2000-2500	268 268	400 400	35 35	173 173	2.80 2.80	1000 1000	150 150	4250 4250	1.77 1.77	470 470	125 125	0.13 0.13	22
SM20-25PHN134 SM20-25PHR134	2000-2500 2000-2500	268 268	400 400	35 35	173 173	2.80 2.80	1000 1000	150 150	4250 4250	1.77 1.77	470 470	125 125	0.13 0.13	24
SM20-25PCN144 SM20-25PCR144	2000-2500 2000-2500	280 280	400 400	39 39	255 255	2.80 2.80	1000 1000	150 150	4500 4500	1.71 1.71	470 470	125 125	0.13 0.13	22
SM20-25PHN144 SM20-25PHR144	2000-2500 2000-2500	280 280	400 400	39 39	255 255	2.80 2.80	1000 1000	150 150	4500 4500	1.71 1.71	470 470	125 125	0.13 0.13	24
SM12-14PHN170 SM12-14PHR170	1200-1400 1200-1400	336 336	400 400	57 57	137 137	1.80 1.80	1000 1000	200 200	4500 4500	1.35 1.35	470 470	125 125	0.13 0.13	23
SM12-18PHN174 SM12-18PHR174	1200-1800 1200-1800	334 334	400 400	58 58	293 293	2.30 2.30	1000 1000	200 200	4500 4500	1.35 1.35	470 470	125 125	0.13 0.13	24

Fig. W20
Weight 85 g



Fig. W22
Weight 250 g



Fig. W21
Weight 85 g



Fig. W23
Weight 250 g



Fig. W24
Weight 250 g



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