

**Stud/Flat Base Types**

Type	V <sub>RRM</sub> Range (V)	I <sub>F(AV)</sub> at T <sub>case</sub> 100°C (A)	I <sub>F(RMS)</sub> at T <sub>case</sub> (A)	I <sub>F</sub> at T <sub>case</sub> (A)	Typical Reverse Recovered Charge Qrr and Typical Reverse Recovery Time trr @ Tj Max. (50% Chord)				I <sub>FSM(1)</sub> 10ms V <sub>R</sub> ≤ 60% (A)	I <sub>FSM(2)</sub> 10ms V <sub>R</sub> ≤ 10V (A)	I <sup>2</sup> t <sup>(2)</sup> 10ms (A <sup>2</sup> s)	I <sub>RRM</sub> @ Tj Max (mA)	V <sub>O</sub> (Note 1) (V)	V <sub>FM</sub> at I <sub>RRM</sub> @ Tj Max. (V)	Tj Max (°C)	R <sub>th(j-c)</sub> (°C/W)		R <sub>th(j-c)</sub> (°C/W)	Wt (gm)	Mounting Torque (Kgm) or force (Kgf)	Fig. No.	Type	
					(μs)	(A)	(A/μs)	(μs)								(A)	(A/μs)						d.c. 180° sine
1N3899-03	50 - 400	20(110°C)	47(85°C)	47(58°C)	0.20	1	25	-	240	285	400	15	1.28	1.67	80	150	1.3	1.78	0.10	17	0.41 - 0.48	1	1N3899-03
1N3909-13	50 - 400	30(117°C)	118(45°C)	118(8°C)	0.20	1	25	-	285	340	500	15	1.15	1.56	135	150	0.8	1.10	0.10	17	0.41 - 0.48	1	1N3909-13
SMxPCN046	200 - 400	45	118(45°C)	118(8°C)	-	-	-	10	0.51	100	25	25	1.15	1.56	135	150	0.8	1.10	0.10	17	0.41 - 0.48	1	PCN046
SMxPCN070-1	200 - 600	70(75°C)	118(70°C)	118(45°C)	0.18†	0.15†	220	25	-	-	20	20	1.26	1.75	200	125	0.44	0.57	0.10	17	0.41 - 0.48	1	PCN070-1
SMxPCN070-2	200 - 1000	70(75°C)	118(70°C)	118(45°C)	0.98†	0.38†	220	25	-	-	20	20	1.26	1.75	220	125	0.44	0.57	0.10	17	0.41 - 0.48	1	PCN070-2
SMxPCN074	200 - 1000	65	118(90°C)	118(65°C)	-	-	-	32	0.98	100	25	25	1.06	1.68	220	150	0.5	0.65	0.10	17	0.41 - 0.48	1	PCN074
SMxPCN076	200 - 400	75	118(99°C)	118(82°C)	-	-	-	11.3	0.50	100	25	25	0.77	1.52	236	150	0.5	0.65	0.10	17	0.41 - 0.48	1	PCN076
SMxPCN085-1	200 - 800	85(65°C)	118(72°C)	118(49°C)	0.18†	0.15†	267	25	-	-	20	20	1.24	1.75	267	125	0.44	0.57	0.10	17	0.41 - 0.48	1	PCN085-1
SMxPCN085-2	200 - 1000	85(65°C)	118(72°C)	118(49°C)	0.98†	0.38†	267	25	-	-	20	20	1.24	1.75	267	125	0.44	0.57	0.10	17	0.41 - 0.48	1	PCN085-2
SMxPCN094	1600 - 2500	56	170(70°C)	170(45°C)	2.80	2.80	1000	150	-	-	20	20	1.29	1.72	280	125	0.3	0.36	0.08	85	1.15 - 1.44	2	MCN094
SMxPHN100	1200 - 1800	58	175(72°C)	175(48°C)	-	-	-	72	1.00	1000	150	20	1.24	1.60	280	125	0.3	0.36	0.08	85	1.15 - 1.44	4	PHN100
SMxPC/HN134	1600 - 2500	120	400(59°C)	400(35°C)	2.80	2.80	1000	150	-	-	20	20	1.21	1.77	470	125	0.13	0.14	0.04	250	1.15 - 1.44 2.50 - 2.77	3.6	PC/HN134
SMxPC/HN144	1600 - 2500	123	400(63°C)	400(39°C)	2.55	2.80	1000	150	-	-	20	20	1.28	1.71	470	125	0.13	0.14	0.04	250	1.15 - 1.44 2.50 - 2.77	3.6	PC/HN144
SMxPHN170	200 - 1400	150	400(77°C)	400(57°C)	-	-	-	137	1.80	1000	200	20	1.02	1.35	470	125	0.13	0.14	0.04	250	2.5 - 2.77	5	PHN170
SMxPHN174	1200 - 2000	150	400(76°C)	400(58°C)	-	-	-	283	2.30	1000	200	20	1.00	1.35	470	125	0.13	0.14	0.04	250	2.5 - 2.77	6	PHN174

**Capsule Types**

SMxXC134	1600 - 2500	350 *	680 †	580 †	2.80	2.80	1000	150	-	-	20	20	1.21	1.97	635	125	0.090 *	0.095 *	-	70	330 - 550 *	7	CXC134
SMxXC144	1600 - 2800	370 *	742 †	624 †	2.55	2.80	550	150	-	-	20	20	1.28	1.86	635	125	0.090 *	0.095 *	-	70	330 - 550 *	7	CXC144
SMxXC170	200 - 1400	440 *	680 †	730 †	56	2.30	550	40	-	-	20	20	1.02	1.47	635	125	0.090 *	0.095 *	-	70	330 - 550 *	7	CXC170
SMxXC174	1200 - 2000	435 *	870 †	725 †	120	2.80	550	40	-	-	20	20	1.00	1.47	635	125	0.090 *	0.095 *	-	70	330 - 550 *	7	CXC174
SMxXC166	1800 - 2500	687 *	630 †	700 †	150	2.30	1000	100	-	-	50	50	1.08	1.71	635	150	0.050 *	0.065 *	-	90	530 - 1000 *	8	CXC166
SMxXC176	1200 - 2000	434 *	870 †	725 †	120	2.80	550	40	-	-	20	20	1.00	1.47	635	125	0.085 *	0.090 *	-	80	365 - 1000 *	8	CXC176
SMxXC190	200 - 1600	760 *	1540 †	1245 †	41	1.50	550	40	-	-	50	50	1.13	1.70	1500	125	0.050 *	0.065 *	-	90	530 - 1000 *	8	CXC190
SMxHC084	3000 - 4500	220 *	415 †	360 †	266	2.50	1000	150	-	-	50	50	1.90	4.54	635	150	0.100 *	0.106 *	-	141	330 - 550 *	8 A	HXC084
SMxHC103	2500 - 3500	252 *	503 †	423 †	188	2.30	1000	100	-	-	50	50	1.48	2.80	635	150	0.100 *	0.106 *	-	141	330 - 550 *	8 A	HXC103
SMxHC164	3000 - 4500	364 *	678 †	597 †	480	2.60	1000	150	-	-	50	50	1.05	1.65	635	150	0.100 *	0.106 *	-	141	330 - 550 *	8 A	HXC164
SMxXC220	200 - 1600	860 *	1745 †	1404 †	105	2.30	800	50	-	-	50	50	1.17	1.55	1200	125	0.044 *	0.055 *	-	340	1000 - 2000 *	9	CXC220
SMxXC224	1400 - 2100	875 *	1760 †	1440 †	225	1.70	800	50	-	-	50	50	1.09	1.50	1200	125	0.044 *	0.055 *	-	340	1000 - 2000 *	9	CXC224
SMxXC274	4600 - 5600	740 *	1435 †	1275 †	-	-	-	825	3.30	1000	200	100	1.15	0.96	230	125	0.033 *	0.040 *	-	340	1000 - 2000 *	9	CXC274
SMxXC314	200 - 1300	1090 *	2175 †	1790 †	-	-	-	120	1.60	1000	200	100	1.15	1.304	1200	125	0.033 *	0.040 *	-	340	1000 - 2000 *	9	CXC314
SMxXC344	3000 - 4500	527 *	967 †	900 †	315	3.50	1000	60	-	-	100	100	1.323	3.18	1400	150	0.033 *	0.040 *	-	340	1000 - 2000 *	9	CXC344
SMxXC364	3000 - 4500	660 *	1315 †	1110 †	263	3.00	1000	50	-	-	100	100	1.71	0.925	300	125	0.033 *	0.040 *	-	340	1000 - 2000 *	9	CXC364
SMxXC374	3000 - 4500	736 *	1465 †	1240 †	-	-	-	953	3.80	1000	200	100	1.50	0.76	254	125	0.033 *	0.040 *	-	340	1000 - 2000 *	9	CXC374
SMxXC474	2600 - 3600	864 *	1730 †	1437 †	-	-	-	548	2.80	1000	200	100	1.39	0.50	210	125	0.033 *	0.040 *	-	340	1000 - 2000 *	9	CXC474
SMxXC524	1600 - 2500	956 *	1944 †	1552 †	-	-	-	338	2.00	1000	200	50	1.44	0.33	190	125	0.033 *	0.040 *	-	340	1000 - 2000 *	9	CXC524
SMxXC724	200 - 2000	940 *	1900 †	1680 †	-	-	-	248	1.90	1000	200	100	1.24	0.33	172	125	0.033 *	0.040 *	-	340	1000 - 2000 *	9	CXC724
SMxXC334	1600 - 2500	1500 *	2807 †	2450 †	420	2.30	1000	200	-	-	60	60	1.24	0.44	221	150	0.022 *	0.028 *	-	510	1900 - 2600 *	10	CXC334
SMxXC504	200 - 600	1830 *	3640 †	3070 †	-	-	-	225	1.50	1000	200	50	0.93	0.18	147	125	0.022 *	0.028 *	-	510	1900 - 2600 *	10	CXC504
SMxXC574	4600 - 5600	1105 *	2185 †	1885 †	-	-	-	1500	4.50	1000	200	60	1.36	0.56	220	125	0.022 *	0.028 *	-	510	1900 - 2600 *	10	CXC574
SMxXC604	3000 - 4500	1010 *	1880 †	1665 †	-	-	-	724	3.00	1000	200	150	1.70	1.03	325	150	0.022 *	0.028 *	-	510	1900 - 2600 *	10	CXC604
SMxXC614	3000 - 500	1160 *	2185 †	1910 †	600	5.30	1000	60	-	-	50	50	1.60	0.77	255	150	0.022 *	0.028 *	-	510	1900 - 2600 *	10	CXC614
SMxXC624	3000 - 4500	1106 *	2185 †	1884 †	-	-	-	863	3.80	1000	200	50	1.37	0.553	220	125	0.022 *	0.028 *	-	510	1900 - 2600 *	10	CXC624
SMxXC824	2500 - 3500	1243 *	2465 †	2108 †	-	-	-	898	2.90	1000	200	60	1.27	0.420	220	125	0.022 *	0.028 *	-	510	1900 - 2600 *	10	CXC824
SMxXC915	1600 - 2500	1610 *	3026 †	2580 †	-	-	-	551	3.00	1000	200	150	1.31	0.345	207	150	0.022 *	0.028 *	-	510	1900 - 2600 *	10	CXC915
SMxXC924	1600 - 2500	1496 *	2807 †	2506 †	-	-	-	488	2.80	1000	200	60	1.15	0.265	234	125	0.022 *	0.028 *	-	510	1900 - 2600 *	10	CXC924
SMxXC964	3000 - 4500	1490 *	2755 †	2485 †	-	-	-	1125	4.10	1000	200	150	1.38	0.71	280	150	0.016 *	0.020 *	-	1000	2700 - 3400 *	11	CXC964
SMxXC968	1800 - 2500	2840 *	5300 †	4630 †	-	-	-	1650	4.30	1000	200	100	0.90	0.17	141	150	0.016 *	0.020 *	-	1000	2700 - 3400 *	11	CXC968
SMxXC974	2000 - 3000	3775 *	7114 †	5990 †	1125	4.10	1000	60	-	-	150	150	1.19	0.118	174	150	0.011 *	0.014 *	-	1700	2700 - 4700 *	12	CXC974

\* T<sub>SMK</sub> 55°C † T<sub>SMK</sub> 55°C ‡ T<sub>j</sub> = 25°C

\* R<sub>th(j-h)</sub>

\* Kgf