

5. RECTIFIERS

IN ORDER OF (1) PIV, (2) MAX AVG FWD CURRENT
(3) TEMPERATURE, and (4) TYPE No.

LINE No.	4	TYPE No.	1	MAX AVG FWD DC CURRENT			MAX RATINGS @ 25°C		DISS. (W)	MAX. TEMP (°C)	MAXIMUM FORWARD VOLTAGE DROP			MAX. REVERSE CURRENT			AVALANCHE RATINGS		DESCRIPTION	
				2	3	at TEMP	PEAK 1 Cy	PULSE WIDTH (s)			Vf (V)	at If (A)	at TEMP (°C)	Ir @ 25°C & Vr (A)	Ir at T & Vr (A)	TEMP T (°C)	TEST VOLT V (V)	MAX V BKDN. (V)	MIN SLOPE (A/V)	MAT.
1		ST7-40	400	160	25A	3.0k	3.0k		190J	1.2	160	25A	40m	25	400			Si	Z28	
2		ST10-40	400	160	25A	3.0k	3.0k		190J	1.2	160	25A	40m	25	400			Si	Z27	
3		1N1286	400 *	160	125C	1.3k	1.3k		190J	1.3	210	25J	40m	25	400			Si	S14a	
4		1N1296	400 *	160	125C	1.3k	1.3k		190J	1.3	210	25J	40m	25	400			Si	S8e	
5		1N3267	400	160	125C	2.0k	2.0k		190C	900m	120	190J	12m	125C	284			Si	D09	
6		H6G3	400	160	126C	2.5k	8.3m		190C	1.2	300	25C	10m	150C	400			Si	D09	
7	#	SKN130/04	400	165	100C	2.5k	10m		180J	1.5	400	25J	500u	280			Si	D08		
8		1N3168	400	175	150C	3.0k			190J	950mΔ	175	190J	16m	125C	400			Si	D09	
9	#	S200-04	400	200	50A	4.0k	10m		150J	1.1	200	25A	20m	400			Si	S480		
10		SCDAS4	400	200	55A	900			150A				50u	500u	100A	400		Si	M495	
11		SCNAS4	400	200	55A	900			150A				50u	500u	100A	400		Si	M495	
12		SCPAS4	400	200	55A	900			150A				50u	500u	100A	400		Si	M495	
13	#	1S942	400	200	83	5.4k	20m		150J	1.05	200	25	800u	400			SiΔ	M26		
14	#	D120-400	400	200	87C	1.9k	10m		150J	1.6	400	25J	25m	150J	400			Si	S96b%	
15	#	20DN40	400	200	100	3.5k	10m		150J	1.5	785	80C	8.0m	45m	100C	400			Si	S96h
16	#	SV2004	400	200	100C	4.0k	10m		150J	1.4	600	25J	20m	150C	400			Si	D08	
17	#	S20N500JA	400	210	100C	4.5k	10m		150J	1.35 †	600	25C	2.0m	30m	150C	400		SiΔ	M378	
18	#	S20P500JA	400	210	100C	4.0k	10m		175J	1.35 †	600	25C	2.0m	30m	175C	400		SiΔ	M378	
19	#	FD2008B	400	240	86C	5.0k	8.3m		150J	1.2 †	400	25C	30m	150J	400			SiΔ	M568	
20	#	1S2344	400	240	92C	5.0k	8.3m		150J	1.2	400	25C	30m	150J	400			SiΔ	M568	
21		1N1675	400 *	240	120C	1.8k			190J	1.25	300	25J	50m	25	400			Si	S14f	
22		1N1335	400 *	240	125C	1.8k			190J	1.25	300	25J	50m	25	400			Si	S14q	
23		1N1381	400 *	240	125C	1.8k			190J	1.25	300	25J	50m	25	400			Si	S14h	
24	#	DS240-04A	400	240	125C	5.9k	10m		175J	1.35	800	25J	5.0m	175J	400			Si	S433	
25	#	BYX27/400	400	250	25A	4.0k	10m	80k	19J	1.8	1.2k	190J	50m	175J	400	800		Si	M105	
26		ST3-40	400	250	25A	5.0k			190J	1.2	250	25A	50m	25	400			Si	Z27	
27		ST9-40	400	250	25A	5.0k			190J	1.2	250	25A	50m	25	400			Si	Z28	
28	#	25DN40	400	250	96C	4.0k	10m		150J	1.3	785	80C	8.0m	45m	96C	400			Si	S96h
29	#	D250-400	400	250	100C	6.1k	10m		150J	1.5	800	25J	5.0m	150J	400			Si	M486%Δ	
30	#	SSIL9920	400	250	100C	6.1k	10m		150J	1.3	785	25J	40m	150J	400			SiΔ*	M572a	
31	#	70M40	400	250	107B	4.0k	10m		175A	1.5 †	800	175J	20m	400			Si	S8n		
32	#	251F4S	400	250	110	4.5k			175J	1.45	1.0k	25J	40m	175J	400			SiΔ	S12n	
33	#	A197D	400	250	110C	5.0k	8.3m		175J	1.6 †	740	53C	60m	40m	125J	400		SiΔ	S435a	
34	#	1N3977	400	250	120C	4.0k	10m	25 ∅	150A	.60 ∅	250	25A	10m∅	150C	400	650		SiΔ	D09Δ#	
35	#	BYX33/400	400	250	120A	4.0k	10m		190J	1.8	1.2k	190J	50m	175J	400			SiΔ	M294	
36	#	J5G3	400	250	122C	4.5k	8.3m		190C	1.2	300	25C	10m	150C	400			Si	D09	
37	#	S5340	400	250	122C	4.5k	8.3m		190J	1.2	300	25C	10m	150C	400	480 ∅		SiΔ	D09	
38	#	S5340TS	400	250	122C	4.5k	8.3m		190J	1.2	300	25C	10m	150C	400	480 ∅		SiΔ	S464a	
39	#	1N3738	400	250	130C	4.5k	8.3m		200C	1.1 Δ	250	130C	16m	130B	400			Si	D09J	
40		1N2061	400	250	135C	4.5k	8.3m		200C	1.25 †	250 †	135C	17m	135C	400			Si	D09	
41		S50340	400	250	136C	4.5k	8.3m		190J	1.65	1.5k	25C	10m	150C	400			SiΔ	D09	
42		S50340TS	400	250	136C	4.5k	8.3m		190J	1.65	1.5k	25C	10m	150C	400			SiΔ	S464a	
43		A190D	400	250	144C	6.5k	8.3m		200J	1.3 †	790	144C	8.0m	130C	400			SiΔ	S435a	
44	#	70U40	400	250	150B	5.0k	10m		200J	1.4	1.0k	25	40m	150J	400			Si	D09J	
45	#	AS4N	400	250	150J	5.0k	10m		150J	1.10	500	150J	20m	150J	400			SiΔ	S132a	
46	#	DS1240-04A	400	255	120C	5.8k	10m		175J	1.35	800	25J	5.0m	175J	400			Si	S433	
47		1N4050	400	275	120C	5.0k			190J	1.35	275	120C	15m	120C	400			Si	D09J	
48	#	S4EN270	400 %	290	125B	1.5k	20m		160B†	.975	340		50m	125B	400			Si*	M307	
49	#	S4HN270	400 %	290	125B	7.2k	10m		160B†	.975m	340		50m	125B	400			Si*	M366a	
50	#	SSIK2825	400	296	136C	2.7k	10m		180J	1.25	300	25J	10m	160J	400			Si*	M851	
51	#	30DN40	400	300	90C	4.5k	10m		150J	1.4	940	80C	60m	90C	400			Si*	S96h	
52	#	D300-400	400	300	100C	6.1k	10m		150J	1.55	1.0k	25J	40m	25J	400			Si	M486a%Δ	
53	#	S4EN301	400	300	100B	5.1k	10m	410	100B	.65 ∅	300	100B	35m	100B	400			Si	M307	
54	#	S4FN301	400	300	100B	5.1k	10m	410	100B	.65 ∅	300	100B	35m	100B	400			Si	M248	
55	#	S4GN301	400	300	100B	5.1k	10m	410	100B	.65 ∅	300	100B	35m	100B	400			Si	M248a	
56	#	S4HN301	400	300	100B	5.1k	10m	410	100B	.65 ∅	300	100B	35m	100B	400			Si	M370	
57	#	SLO4PHN300	400	300	100C	5.5k	10m	370 #	150C	1.2	785	150C	15m	150C	400			Si	S497	
58	#	TV3004	400	300	110C	6.0k	10m		180J	1.4	1.0k	25J	30m	180C	400			Si	D09	
59	#	300U40A	400 †	300	120C	5.0k	8.3m		200J	1.4	300 †	120C	16m	120C	400			Si*	D09J	
60	#	S50440	400	300	132C	5.0k	8.3m		190J	1.45	1.5k	25C	10m	150C	400			SiΔ	D09J	
61	#	S50440TS	400	300	132C	5.0k	8.3m		190J	1.45	1.5k	25C	10m	150C	400			SiΔ	S464a	
62	#	R620043000	400	300	142C	5.5k	8.3m		190J	1.7	800	25J	50m	190J	400			Si	M687	
63	#	S4EN290	400 %	310	125B	1.6k	20m		160B†	.975	340		50m	125B	400			Si*	M307	
64	#	S4HN290	400 %	310	125B	7.2k	10m		160B†	.975m	340		50m	125B	400			Si*	M366a	
65	#	SSIL9820	400	320	96C	6.7k	10m		150J	1.35	1.0k	25J	40m	150J	400			SiΔ*	M572	
66	#	SKN240/04	400	320	100C	6.0k	10m		180J	1.4	750	25J	1.0m	280			Si	D09J		
67	#	S4EN300	400 %	340	125B	2.0k	20m		160B	900m	340		50m	125	400			Si*	M307	
68	#	S4HN300	400 %	340	125B	7.2k	10m		160B	900m	340		50m	125	400			Si*	M307	
69	#	ST20-40	400	350	25A	7.0k	10m		175J	1.2	350	25A	40m	25A	400			Si	S203c	
70	#	AS4†	400	350	150J	7.0k	10m		150J	920m	500	150J	20m	150J	400			SiΔ	S132a	
71	#	S5EN350	400	370	125B	6.2k	10m		170J	1.2	1.1k		50m	400			Si*	M307		
72	#	S5HN350	400	370	125B	6.2k	10m		170J	1.2	1.1k		50m	400			Si*	M873		
73	#	DS250-04G	400	390	45C	4.3k	10m		180J	1.9	1.2k	25J	30m	180J	400			Si	M711a	
74	#	DS250-04M	400	390	45C	4.3k	10m		180J	1.9	1.2k	25J	30m	180J	400			Si	M839b	
75	#	DS250-04G	400	390	45C	4.3k	10m		180J	1.9	1.2k	25J	30m	180J	400			Si	M711a	
76	#	DS250-04M	400	390	45C	4.3k	10m		180J	1.9	1.2k	25J	30m	180J	400			Si	M839b	
77	#	40DN40	400	400	75C	5.0k	10m		150J	1.4	1.2k	80C	60m	75C	400			Si	S96i	
78	#	D240-400	400	400	100C															