5. RECTIFIERS

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

LINE No.	4 TYPE No.	1 PIV (V)	MAX AVG FWD DC CURRENT 2 Io (A)	3 at TEMP (°C)	MAX RATINGS @ 25°C SURGE CUR. PEAK 1 Cy (A)	PULSE WIDTH (s)	DISS. (W)	MAX. TEMP (°C)	MAXIMUM FORWARD VOLTAGE DROP Vf (V)	at If (A)	at TEMP (°C)	MAX. REVERSE CURRENT Ir @25°C & Vr (A)	Ir at T & Vr (A)	TEMP T (°C)	TEST VOLT Vr (V)	AVALANCHE RATINGS MAX V BKDN. (V)	MIN SLOPE (A/V)	DESCRIPTION MAT.	DWG. No.
1	AE1B	100	1.5	75A	60	8.0m	1.0	175A	1.0	1.5	25	1.0u	50u	100A	100			Si	DO15
2	CTN100	100	1.5	75	50	10m		175A	1.0	750m	25A	10u			100			Si	M594*
3	CTP100	100	1.5	75	50	10m		175A	1.0	750m	25A	10u			100			Si	M594a*
4	J1	100	1.5	75A	60	8.0m	1.0	175A	1.0	1.5	25A	1.0u	50u	100A	100			Si	DO15
5	VB100	100	1.5	75	50	10m		175A	1.0	3.0	25A	10u			100			Si	M594b*
6	1N1115	100 †	1.5	85C	15			170A	.65 ∅	1.5	150		.40m∅	150	100			Si	DO4
7	1N1053	100	1.5	100A	60 §	4.0m		150A	1.5	1.5	25A	1.0m			100			Si	A167v
8	1N1085	100	1.5	100A	60 §	4.0m		150A	1.5	1.5	25A	2.0m			100			Si	F22h
9	1N1450	100	1.5	100C$				190J	1.0	2.4	150C		5.0m	25C	100			Si	S41a
10	1N1617	100	1.5	100A$	100	4.0m		100A	1.2	1.5	25		5.0m	25	100			Si	A52
11#	1R5BZ61	100	1.5	100A	75	10m		175J	1.0	1.5	25J	10u			100			Si	A109e
12	1N1446	100	1.5	120C				175J	1.3	1.8	25A		2.0m	25C	100			Si	S41b
13	S91B	100	1.6	25$	25				1.2	.25	25	1.0m			100			Si	A54
14	1N1228B	100	1.6	50$	30				1.2	1.0	25	10u	300u	150	100			Si	S25a
15	1N1218	100	1.6	135C	20			175J	1.5	2.5	25J	500u	1.5m	150J	100			Si	DO1
16	1N1228	100	1.6	135C	20			175J	1.5	2.5	25J	500u	1.5m	150J	100			Si	S25
17	1N1218B	100 †	1.6	140C	25			175$	1.7	1.3	25	300u∅	10m△	25	100			Si	DO1
18	1N1228A	100	1.6	140C	20			175J	1.5	2.5	25J	50u	.50m	150J	100			Si	S25
19	1N1538	100	1.6	140C	20			175J	1.5	2.5	25J	50u	.50m	150J	100			Si	DO4
20	1N1218A	100	1.6	175J$	20			175J	1.5	2.5	25J	50u	.50m	150J	100			Si	DO1
21	NS2001	100	2.0		200	8.3m			1.2	2.0		25u			100				DO27
22#	R210	100	2.0		50		2.5	200J	1.2	2.0		100u	1.0m	100	100			Si	DO1
23	SK3105-RT	100	2.0		75													Si	*
24	200R1B	100	2.0	25	60			175	2.0	2.0	25	5.0u	.50m	150	100			Si	
25	AB100	100	2.0	25	15		3.0	100	1.25	1.0	25	5.0u			100			Si	A3q
26#	F12	100	2.0	25A	70	10m	2.4	175J	1.2 △	2.0	25C		1.0m	150A	100			Si	DO13
27	M2B1	100	2.0	25	250			175A	.50		150	2.0u	5.0m	150	100			Si	A1ep
28	M2B5	100	2.0	25	250			175A	.50		150	10u	5.0m	150	100			Si	A1ep
29♦	M2B9	100	2.0	25	250			175A	.50		150	10u	5.0m	150	100	120	200u	Si	A1ep
30	UR210∅	100	2.0	25A	25	8.3m		175A	1.0	2 ☑	25A	3.0u	.05m	100A	100			Si	A146f
31	UT261	100	2.0	25A	30	8.3m	4.0	175A	1.0	.90 ☑	25A	2.0u	75u	100A	100			Si	A60
32	UT2010	100	2.0	25	60	8.3m		175A	1.0	1.0	25	5.0u	100u	100	100			Si△	A196k
33#	1S2409	100	2.0	40A	150 §	8.3m		150J	1.1 †	10	25A	100u	1.0m	150J	100			Si△	A1fn
34#	1S2416	100	2.0	40A	150 §	8.3m		150J	1.1 †	10	25A	100u	1.0m	150J	100			Si△	A279
35#	S2VB10	100	2.0	40A	40			150J	1.05	1.0	25	10u		25				Si	C188
36#	S2VC10	100	2.0	40A	40			150J	1.05	1.0	25A	10u		25A				Si	C190
37#	SR3AM2	100	2.0	40A	150 §	8.3m		150J	1.1	10	25A	100u	1.0m	150J	100			Si△	A1fn
38#	BY296	100	2.0	45	70	10m		150J	1.3	3.0	25	10u		25	100			Si△	DO13
39	1N5172	100	2.0	50A	200			175A	1.2 †	2.0	50A		25u	50A	100			Si	DO27
40	2SB100	100	2.0	50	50	8.3m		150	1.0	1.0	25	10u			100			Si	M532a
41	B8B5	100	2.0	50	90	8.3m		175A	1.0	2.0	25A	5.0u	500u	150	100			Si	A1rx
42	B172-10	100	2.0	50	60			150C	2.0	2.0	25	5.0u	.50m	100	100			Si	
43	K8B5	100	2.0	50	60			150C	2.0	2.0	25	5.0u	.50m	100	100			Si	
44	PD10	100	2.0	50A	50			125A	.90	1.0	25A	5.0u						Si	M40a*
45	SI1A	100	2.0	50A	80	10m		150C	1.0	3.0	25A	1.0u			100			Si	A1bc
46	DBD101	100	2.0	60	400	8.3m		175J	1.25	100	175J	100u	1.0m	150J	100			Si△	M778
47	HB100	100	2.0	75A	200			175C	1.0	2.0	25A	5.0u			100			Si	A179b
48	SRS210	100	2.0	75	65	8.3m		175A	1.2	2.0	25	5.0u	150u	150	100			Si	A340
49	1N1085A	100	2.0	100A	100	4.0m		100A				25n			100			Si	F42
50	20D1	100	2.0	100L	50	8.3m		170J	1.3	2.0	25C	10u			100			Si	DO39
51	250R1B	100	2.5	25	250			175	2.0	2.5	25	5.0u	.50m	150	100			Si	
52♦	A14A	100	2.5	25	50	8.3m		175J	1.0	1.0	25J	5.0u	300u	175J	100	120		Si	A94g
53	M3B1	100	2.5	25	250			175A	.50		150	2.0u	5.0m	150	100			Si	A1ep
54	M3B5	100	2.5	25	250			175A	.50		150	10u	5.0m	150	100			Si	A1ep
55♦	M3B9	100	2.5	25	250			175A	.50		150	10u	5.0m	150	100	120	200u	Si	A1ep
56#	SL103F	100	2.5	30A	100 §			150C	1.05	7.5	25A	5.0u	110u	100A	100			Si△	DO1
57#	1SR18-100	100	2.5	40A	120			150J	1.05	1.2	25A	10u		25A				Si	M594d☑
58▼#	U05B	100	2.5	90L	100	10m		175J	1.1 †	2.5	25L	60u			100			Si	A333b
59	1N2525	100	2.5	150C$	50			150C	1.2	4.0	25C	4.0u	.50m	150C	100			Si△	DO10
60	1N2536	100	2.5	150C$	50			150C	1.0	4.0	25C	1.0u	.10m	150C	100			Si△	DO10
61	1N2547	100	2.5	150C$	50			150C	1.5	4.0	25C	10u	1.0m	150C	100			Si△	DO10
62#	S3V10	100	2.6	40A	120			150J	1.05	2.6	25	5.0u		25				Si	A344k
63#	S4VB10	100	2.6	40A	80			150J	1.05	2.0	25A	10u		25A				Si	C188a
64#	KD202V	100	3.0					130C	1.0	3.0 †		1.0m∅	1.0m∅	120A	100			Si△	S477
65	NS3001	100	3.0		300	8.3m			1.2	3.0		25u			100				A1eq
66	1N2702	100	3.0	25A	15	8.3m		165A	1.3	3.0	25A	200u			100			Si	M125
67	1N2725	100	3.0	25A	15	8.3m		165A	1.3	3.0	25A	300u			100			Si	M126a
68	1N2750	100	3.0	25A	15	8.3m		165A	1.3	3.0	25A	300u			100			Si	M126a
69	300R1B	100	3.0	25	250			175	2.0	3.0	25	10u	1.0m	150	100			Si	
70	AC100	100	3.0	25A	50			150C	1.0	3.0	25A	5.0u			100			Si	A1ey
71#	GU-3SY	100	3.0	25	60	10m		175	1.2	1.0	25	10u			100			Si△	A333b
72	HEPR0081-RT	100	3.0	25$	300			175†										Si	M603
73	HEPR0091-RT	100	3.0	25$	300			175†										Si	A179
74	M4B1	100	3.0	25	250			175A	.50		150	2.0u	5.0m	150	100			Si	A1ep
75	M4B5	100	3.0	25	250			175A	.50		150	10u	5.0m	150	100			Si	A1ep
76♦	M4B9	100	3.0	25	250			175A	.50		150	10u	5.0m	150	100	120	200u	Si	A1ep
77	SRS310	100	3.0	25	125	8.3m		175A	1.3 †	9.0	25	5.0u	75u	100	100			Si	A340a
78	UT3010	100	3.0	25	80	8.3m		175A	1.0	2.0	25	5.0u	100u	100	100			Si△	A196k
79	1N4998	100 †	3.0	40A	300 §			175A	1.0 †	3.0	75A		2.0m	175A	100			Si	M176a
80♦#	S1M3	100 †	3.0	40A	185			170A	1.0	10			500u	150J	300			Si△	A52d
81	V331	100	3.0	40A	100	8.3m		150J	1.2	3.0	25A		100u	150J	100			Si	A1zz
82	V351	100	3.0	40A	200	8.3m		150J	1.1	3.0	25A		100u	150J	100			Si	A1zz
83	1N2349	100	3.0	50C	15			150A	1.1	1.0	25							Si	S19h☑
84	1N4140	100 †	3.0	50A	300	8.3m		175A	1.0	3.0	50A		200u	50A	100			Si	A1vm
85	AS3B	100	3.0	50A	300	8.3m	3.0	150A	1.0	3.0	25	5.0u			100			Si	A1vp
86	HAB010	100	3.0	50	300	8.3m		150A	1.1	3.0	25	5.0u	150u	100	100			Si	A1ez
87	S3A1	100	3.0	50A	300	8.3m		175C	1.0	3.0	25A	1.0u			100			Si	A1ey
88▼	1N3359	100 †	3.0	55C	30	8.3m	30 ☑	200C	1.0 △	1.0	55C		10u☑	55C	100			Si	S505
89	1N5198	100	3.0	55A	300 §	8.3m		175A	1.0	3.0	55A		7.7m△	175A	100			Si	A1rv
90	3SI1	100	3.0	55	300	8.3m		150J	1.0 △	3.0	25	10u			100			Si	A1xg
91♦	A15A	100	3.0	70	125	8.3m		175J	1.0	3.0	25A	5.0u	300u	175J	100	120		Si	A249
92#	S3G10	100	3.0	70A	100	20m		175J	1.05	3.0	25A	10u			100			Si	A333a
93	1N4720	100	3.0	75A	300			175A	1.0	3.0	75		2.0m	175	100			Si	A179a☑
94	3E1	100	3.0	75A	300	4.0m	3.0	175A	1.0	3.0	25	5.0u	100u	50	100			Si	A1vk
95	AE3B	100	3.0	75A	300	4.0m	3.0	175A	1.0	3.0	25	5.0u			100			Si	A1vk
96	HC100	100	3.0	75	300		3.0	175	1.0	1.0	25		1.0m	25	100			Si	A179
97#	BYW17-100	100	3.0	80A	240	10m		150J	1.2	10	25A	25u	250u	100C	100			Si	A318
98	S51△	100	3.0	80$	20				1.3	5.0	25	100u			100			Si	S48
99#	3BZ61	100	3.0	95A	100	10m		175J	1.0	3.0	25J	10u			100			Si	A109f
100	MR501	100	3.0	95A	100		2.5	175J	1.0	9.4	175J	5.0u	25u	100J	100				A282
101#	S1BR2	100 %	3.0	95B	53			130B	.55 ∅	1.5	25		2.0m	125	100			Si	S81
102	HR100	100	3.0	100	300 §	8.0m		150A	1.0	3.0 †	25	2.0u△	5.0u	50A	100			Si	A1sm
103	P300B	100	3.0	100A	200	8.3m		175	1.1	9.4	25	5.0u	25u	100L	100			Si	A3ac
104	1N5401	100	3.0	105C	200 §			170C	1.2	3.0	105C		.50m	150C	100			Si	A3q
105#	1S410	100	3.0	125S	33			150S	1.6	10	25S	5.0u	300u	150	100			Si	S61△
106	30S1	100	3.0	125L	150	8.3m		175J	1.0	3.0 †	25J	5.0u	300u☑	100L	100			Si	A1ts
107#	D1003	100	3.0	125B$	35			125B	1.5	3.0	25		.30m	25B	100			Si△	S4c
108	S410☑	100	3.0	125A				150A	1.6	10	25A	5.0u	300u	150	100			Si△	S24c☑
109	3F10	100	3.0	140C	40	8.3m		175J	1.2	3.0	25C		300u	140C	100			Si	DO4
110	1N1582	100	3.0	150C				175B	1.5	6.0	25C		.50m☑	150	100			Si	DO4

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