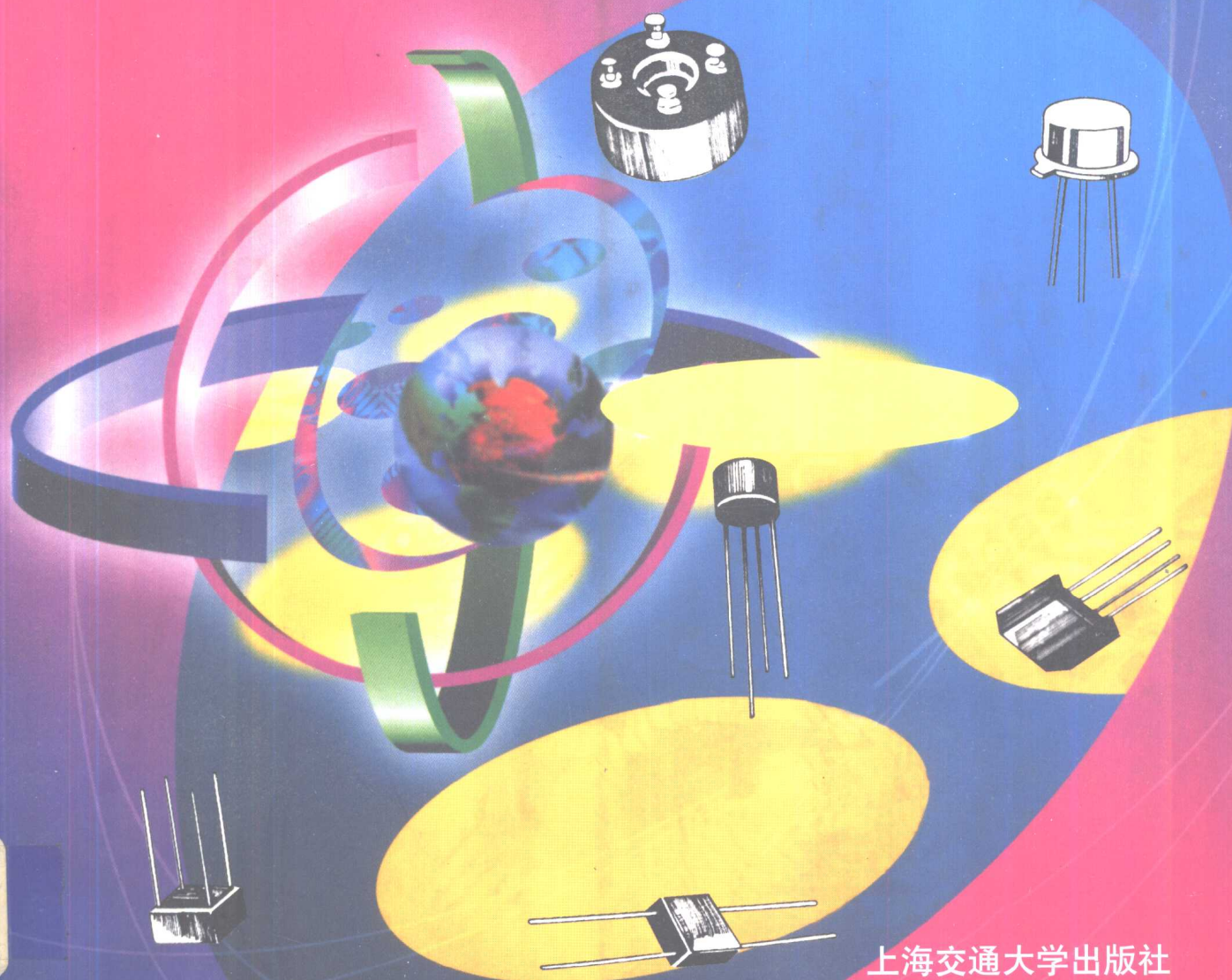


变容二极管

半导体二极管参数与代换手册

变容二极管分册

《半导体二极管参数与代换手册》编写组



上海交通大学出版社

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变容二极管分册**

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前 言

半导体二极管的型号种类繁多,用途极其广泛,在设计及维修电子、电工产品时,十分需要了解半导体二极管的各种型号和有关参数及代换二极管的型号。为了向广大的工程技术人员、电子产品的设计和维修人员、电子爱好者提供一部信息量大、检索方便、广泛实用的半导体二极管工具书,我们根据数家国内外权威数据公司提供的最新资料编写了这套《半导体二极管参数与代换手册》。

本手册分成五个分册,各分册的内容为:

特种整流二极管分册 (桥式整流器、肖特基整流管、快速恢复整流管);

硅整流二极管分册;

稳压二极管分册;

变容二极管分册;

其它二极管分册 (瞬变抑制二极管、变阻二极管、碰撞雪崩渡越时间二极管、锗二极管与硒二极管、隧道二极管、稳流二极管、U 段与微波段混频二极管、U 段与微波段检波二极管、P-I-N 结构二极管、二极管阵列)。

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在本手册的编写过程中,编写者进行了大量的整体策划、资料搜集、翻译、编程、录入、排版、校对、统稿等工作;在计算机录排过程中,又得到了上海交通大学出版社有关同志的大力支持。在此,一并谨表示衷心的感谢。

鉴于编者的水平所限,错误之处在所难免,敬请读者指正。

编者

1998 年 12 月

使用 说 明

本书分为三部分:参数部分、代换部分与外形图。

本书参数部分的各种二极管型号按阿拉伯数字和英文字母顺序排列,夹在两个字母之间的数字当作一个字母处理。例如:

型号 KD110F40 看成由 K、D、110、F、40 五个“字母”组成;

型号 40DS30 看成由 40、D、S、30 四个“字母”组成。

排序时从左边第一个字母开始比较,数字在前,字母在后。若第一个字母相同,比较第二个字母,其他以此类推。

参数部分各个参数符号所代表的意义如下:

第一项 $C_1(\text{Nom})$ 为引脚间的电容量;

第二项 C_1/C_2 为最大与最小电容量比;

第三项 V_{rm} 为反向峰值电压;

第四项 Q_{min} 为变容二极管的 Q 值;

第五项 P_{dmax} 为二极管消耗功率的最大值。

“外形与类型”一项是指二极管类型的代号,各个代号所代表的外形见本书第三部分的二极管外形图。

代换部分只有两项:原二极管型号与常见的参数相近的可代换二极管型号。

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变容二极管参数

型	号	C_1 (F)	C_1/C_2	V_{rm} (V)	Q_{min}	P_{max} (W)	外形与类型	型	号	C_1 (F)	C_1/C_2	V_{rm} (V)	Q_{min}	P_{max} (W)	外形与类型
1M220		6.8p	7.0	12	200		SMT		1M1404B	120p	10	10	200		Chip - SM
1M220A		6.8p	7.0	12	200		SMT		1M1405	250p	10	10	200		Chip - SM
1M220B		6.8p	7.0	12	200		SMT		1M1405A	250p	10	10	200		Chip - SM
1M224		10p	7.0	12	200		SMT		1M1405B	250p	10	10	200		Chip - SM
1M224A		10p	7.0	12	200		SMT		1M1406	80p	10	10	200		Chip - SM
1M224B		10p	7.0	12	200		SMT		1M1406A	80p	10	10	200		Chip - SM
1M234		22p	7.0	12	125		SMT		1M1406B	80p	10	10	200		Chip - SM
1M234A		22p	7.0	12	125		SMT		1M1407	56p	10	10	200		Chip - SM
1M234B		22p	7.0	12	125		SMT		1M1407A	56p	10	10	200		Chip - SM
1M238		33p	7.0	12	125		SMT		1M1407B	56p	10	10	200		Chip - SM
1M238A		33p	7.0	12	125		SMT		1M1408	39p	10	10	200		Chip - SM
1M238B		33p	7.0	12	125		SMT		1M1408A	39p	10	10	200		Chip - SM
1M242		47p	7.0	12	100		SMT		1M1408B	39p	10	10	200		Chip - SM
1M242A		47p	7.0	12	100		SMT		1M1409	27p	10	10	200		Chip - SM
1M242B		47p	7.0	12	100		SMT		1M1409A	27p	10	10	200		Chip - SM
1M246		68p	7.0	12	75		SMT		1M1409B	27p	10	10	200		Chip - SM
1M246A		68p	7.0	12	75		SMT		1M1410	17p	10	10	200		Chip - SM
1M246B		68p	7.0	12	75		SMT		1M1410A	17p	10	10	200		Chip - SM
1M250		100p	7.0	12	75		SMT		1M1410B	17p	10	10	200		Chip - SM
1M250A		100p	7.0	12	75		SMT		1M1411	12p	10	10	200		Chip - SM
1M250B		100p	7.0	12	75		SMT		1M1411A	12p	10	10	200		Chip - SM
1M288		15p	7.0	12	175		SMT		1M1411B	12p	10	10	200		Chip - SM
1M288A		15p	7.0	12	175		SMT		1M1412	8p	10	10	200		Chip - SM
1M288B		15p	7.0	12	175		SMT		1M1412A	8p	10	10	200		Chip - SM
1M1401		550p	14	10	200		Chip - SM		1M1412B	8p	10	10	200		Chip - SM
1M1401A		550p	14	10	200		Chip - SM		1M3020	100p	1.61	12	200		Chip - SM
1M1401B		550p	14	10	200		Chip - SM		1M3030	100p	2.05	12	200		Chip - SM
1M1402		360p	10	10	200		Chip - SM		1M3120	18p	1.61	12	200		Chip - SM
1M1402A		360p	10	10	200		Chip - SM		1M3130	18p	2.05	12	200		Chip - SM
1M1402B		360p	10	10	200		Chip - SM		1M3220	22p	1.61	12	200		Chip - SM
1M1403		175p	10	10	200		Chip - SM		1M3230	22p	2.05	12	200		Chip - SM
1M1403A		175p	10	10	200		Chip - SM		1M3320	27p	1.61	12	200		Chip - SM
1M1403B		175p	10	10	200		Chip - SM		1M3330	27p	2.05	12	200		Chip - SM
1M1404		120p	10	10	200		Chip - SM		1M3420	33p	1.61	12	200		Chip - SM
1M1404A		120p	10	10	200		Chip - SM		1M3430	33p	2.05	12	200		Chip - SM

变容二极管参数

型	号	C_1 (F)	C_1/C_2	V_{rm} (V)	Q_{min}	P_{dmax} (W)	外形与类型	型	号	C_1 (F)	C_1/C_2	V_{rm} (V)	Q_{min}	P_{dmax} (W)	外形与类型
1M3520		40p	1.61	12	200		Chip - SM	1M5144B		22p	3.2	60	200		Chip - SM
1M3530		40p	2.05	12	200		Chip - SM	1M5145		27p	3.2	60	200		Chip - SM
1M3620		47p	1.61	12	200		Chip - SM	1M5145B		27p	3.2	60	200		Chip - SM
1M3630		47p	2.05	12	200		Chip - SM	1M5146		33p	3.2	60	200		Chip - SM
1M3720		57p	1.61	12	200		Chip - SM	1M5146B		33p	3.2	60	200		Chip - SM
1M3730		57p	2.05	12	200		Chip - SM	1M5147		39p	3.2	60	200		Chip - SM
1M3820		68p	1.61	12	200		Chip - SM	1M5147B		39p	3.2	60	200		Chip - SM
1M3830		68p	2.05	12	200		Chip - SM	1M5148		47p	3.2	60	200		Chip - SM
1M3920		82p	1.61	12	200		Chip - SM	1M5148B		47p	3.2	60	200		Chip - SM
1M3930		82p	2.05	12	200		Chip - SM	1M5220		22p	1.38	12	200		Chip - SM
1M4120		18p	1.47	12	200		Chip - SM	1M5230		22p	1.63	12	200		Chip - SM
1M4130		18p	1.79	12	200		Chip - SM	1M5320		27p	1.38	12	200		Chip - SM
1M4220		22p	1.47	12	200		Chip - SM	1M5330		27p	1.63	12	200		Chip - SM
1M4230		22p	1.79	12	200		Chip - SM	1M5420		33p	1.38	12	200		Chip - SM
1M4320		27p	1.47	12	200		Chip - SM	1M5430		33p	1.63	12	200		Chip - SM
1M4330		27p	1.79	12	200		Chip - SM	1M5441A		6.8p	2.5	30	450		Chip - SM
1M4420		33p	1.47	12	200		Chip - SM	1M5441B		6.8p	2.5	30	450		Chip - SM
1M4430		33p	1.79	12	200		Chip - SM	1M5442A		8.2p	2.5	30	450		Chip - SM
1M4520		40p	1.47	12	200		Chip - SM	1M5442B		8.2p	2.5	30	450		Chip - SM
1M4530		40p	1.79	12	200		Chip - SM	1M5443		10p	2.6	30	400	400m	DO - 7
1M4620		47p	1.47	12	200		Chip - SM	1M5443A		10p	2.6	30	400	400m	DO - 7
1M4630		47p	1.79	12	200		Chip - SM	1M5443B		10p	2.6	30	400	400m	DO - 7
1M5120		18p	1.38	12	200		Chip - SM	1M5443C		10p	2.6	30	400	400m	DO - 7
1M5130		18p	1.63	12	200		Chip - SM	1M5443D		10p	2.6	30	400	400m	DO - 7
1M5139		6.8p	2.7	60	350		Chip - SM	1M5444A		12p	2.6	30	400		Chip - SM
1M5139B		6.8p	2.7	60	350		Chip - SM	1M5444B		12p	2.6	30	400		Chip - SM
1M5140		10p	2.8	60	300		Chip - SM	1M5445A		15p	2.6	30	400		Chip - SM
1M5140B		10p	2.8	60	300		Chip - SM	1M5445B		15p	2.6	30	400		Chip - SM
1M5141		12p	2.8	60	300		Chip - SM	1M5446A		18p	2.6	30	350		Chip - SM
1M5141B		12p	2.8	60	300		Chip - SM	1M5446B		18p	2.6	30	350		Chip - SM
1M5142		15p	2.8	60	250		Chip - SM	1M5447A		20p	2.6	30	350		Chip - SM
1M5142B		15p	2.8	60	250		Chip - SM	1M5447B		20p	2.6	30	350		Chip - SM
1M5143		18p	2.8	60	250		Chip - SM	1M5448A		22p	2.6	30	350		Chip - SM
1M5143B		18p	2.8	60	250		Chip - SM	1M5448B		22p	2.6	30	350		Chip - SM
1M5144		22p	3.2	60	200		Chip - SM	1M5449A		27p	2.6	30	350		Chip - SM

变容二极管参数

型 号	C_1 (F)	C_1/C_2	V_{nm} (V)	Q_{min}	P_{dmax} (W)	外形与类型	型 号	C_1 (F)	C_1/C_2	V_{nm} (V)	Q_{min}	P_{dmax} (W)	外形与类型
1M5449B	27p	2.6	30	350		Chip - SM	1M5471A	39p	2.9	30	450		Chip - SM
1M5450A	33p	2.6	30	350		Chip - SM	1M5471B	39p	2.9	30	450		Chip - SM
1M5450B	33p	2.6	30	350		Chip - SM	1M5472A	47p	2.9	30	400		Chip - SM
1M5451A	39p	2.6	30	300		Chip - SM	1M5472B	47p	2.9	30	400		Chip - SM
1M5451B	39p	2.6	30	300		Chip - SM	1M5473A	56p	2.9	30	300		Chip - SM
1M5452A	47p	2.6	30	250		Chip - SM	1M5473B	56p	2.9	30	300		Chip - SM
1M5452B	47p	2.6	30	250		Chip - SM	1M5474A	68p	2.9	30	250		Chip - SM
1M5453A	56p	2.6	30	200		Chip - SM	1M5474B	68p	2.9	30	250		Chip - SM
1M5453B	56p	2.6	30	200		Chip - SM	1M5475A	82p	2.9	30	225		Chip - SM
1M5454A	68p	2.7	30	175		Chip - SM	1M5475B	82p	2.9	30	225		Chip - SM
1M5454B	68p	2.7	30	175		Chip - SM	1M5476A	100p	2.9	30	200		Chip - SM
1M5455A	82p	2.7	30	175		Chip - SM	1M5476B	100p	2.9	30	200		Chip - SM
1M5455B	82p	2.7	30	175		Chip - SM	1M5520	40p	1.38	12	200		Chip - SM
1M5456A	100p	2.7	30	175		Chip - SM	1M5530	40p	1.63	12	200		Chip - SM
1M5456B	100p	2.7	30	175		Chip - SM	1M5681A	6.8p	3.1	45	600		Chip - SM
1M5461A	6.8p	2.7	30	600		Chip - SM	1M5681B	6.8p	3.1	45	600		Chip - SM
1M5461B	6.8p	2.7	30	600		Chip - SM	1M5682A	8.2p	3.1	45	600		Chip - SM
1M5462A	8.2p	2.8	30	600		Chip - SM	1M5682B	8.2p	3.1	45	600		Chip - SM
1M5462B	8.2p	2.8	30	600		Chip - SM	1M5683A	10p	3.2	45	550		Chip - SM
1M5463A	10p	2.8	30	550		Chip - SM	1M5683B	10p	3.2	45	550		Chip - SM
1M5463B	10p	2.8	30	550		Chip - SM	1M5684A	12p	3.2	45	550		Chip - SM
1M5464A	12p	2.8	30	550		Chip - SM	1M5684B	12p	3.2	45	550		Chip - SM
1M5464B	12p	2.8	30	550		Chip - SM	1M5685A	15p	3.2	45	550		Chip - SM
1M5465A	15p	2.8	30	550		Chip - SM	1M5685B	15p	3.2	45	550		Chip - SM
1M5465B	15p	2.8	30	550		Chip - SM	1M5686A	18p	3.2	45	500		Chip - SM
1M5466A	18p	2.9	30	500		Chip - SM	1M5686B	18p	3.2	45	500		Chip - SM
1M5466B	18p	2.9	30	500		Chip - SM	1M5687A	22p	3.3	45	500		Chip - SM
1M5467A	20p	2.9	30	500		Chip - SM	1M5687B	22p	3.3	45	500		Chip - SM
1M5467B	20p	2.9	30	500		Chip - SM	1M5688A	27p	3.3	45	500		Chip - SM
1M5468A	22p	2.9	30	500		Chip - SM	1M5688B	27p	3.3	45	500		Chip - SM
1M5468B	22p	2.9	30	500		Chip - SM	1M5689A	33p	3.3	45	500		Chip - SM
1M5469A	27p	2.9	30	500		Chip - SM	1M5689B	33p	3.3	45	500		Chip - SM
1M5469B	27p	2.9	30	500		Chip - SM	1M5690A	39p	3.3	45	450		Chip - SM
1M5470A	33p	2.9	30	500		Chip - SM	1M5690B	39p	3.3	45	450		Chip - SM
1M5470B	33p	2.9	30	500		Chip - SM	1M5691A	47p	3.3	45	400		Chip - SM

变容二极管参数

型	号	C_1 (F)	C_1/C_2	V_{rm} (V)	Q_{min}	P_{max} (W)	外形与类型	型	号	C_1 (F)	C_1/C_2	V_{rm} (V)	Q_{min}	P_{max} (W)	外形与类型
1M5691B		47p	3.3	45	400		Chip - SM	1M5709A		82p	3.2	65	150		Chip - SM
1M5692A		56p	3.3	45	350		Chip - SM	1M5709B		82p	3.2	65	150		Chip - SM
1M5692B		56p	3.3	45	350		Chip - SM	1M5710A		100p	3.2	65	150		Chip - SM
1M5693A		68p	3.3	45	250		Chip - SM	1M5710B		100p	3.2	65	150		Chip - SM
1M5693B		68p	3.3	45	250		Chip - SM	1M6120		18p	1.32	12	200		Chip - SM
1M5694A		82p	3.3	45	225		Chip - SM	1M6130		18p	1.53	12	200		Chip - SM
1M5694B		82p	3.3	45	225		Chip - SM	1M6220		22p	1.32	12	200		Chip - SM
1M5695A		100p	3.3	45	200		Chip - SM	1M6230		22p	1.53	12	200		Chip - SM
1M5695B		100p	3.3	45	200		Chip - SM	1M6320		27p	1.32	12	200		Chip - SM
1M5696A		6.8p	2.7	65	450		Chip - SM	1M6330		27p	1.53	12	200		Chip - SM
1M5696B		6.8p	2.7	65	450		Chip - SM	1M6420		33p	1.32	12	200		Chip - SM
1M5697A		8.2p	2.7	65	450		Chip - SM	1M6430		33p	1.53	12	200		Chip - SM
1M5697B		8.2p	2.7	65	450		Chip - SM	1M6520		20p		12	80		Chip - SM
1M5698A		10p	2.8	65	400		Chip - SM	1M6520A		20p	1.7	15	160		Chip - SM
1M5698B		10p	2.8	65	400		Chip - SM	1M6520B		20p	4.6	22	160		Chip - SM
1M5699A		12p	2.8	65	400		Chip - SM	1M6520C		20p	2.0	15	160		Chip - SM
1M5699B		12p	2.8	65	400		Chip - SM	1M6520D		20p	2.0	22	160		Chip - SM
1M5700A		15p	2.8	65	400		Chip - SM	1M6522		50p		12	60		Chip - SM
1M5700B		15p	2.8	65	400		Chip - SM	1M6522A		50p	1.8	15	125		Chip - SM
1M5701A		18p	2.8	65	375		Chip - SM	1M6522B		50p	4.9	22	125		Chip - SM
1M5701B		18p	2.8	65	375		Chip - SM	1M6522C		50p		15	125		Chip - SM
1M5702A		22p	3.2	65	375		Chip - SM	1M6522D		50p	2.2	22	125		Chip - SM
1M5702B		22p	3.2	65	375		Chip - SM	1M6523		110p		12	40		Chip - SM
1M5703A		27p	3.2	65	350		Chip - SM	1M6523A		110p	1.8	15	80		Chip - SM
1M5703B		27p	3.2	65	350		Chip - SM	1M6523B		110p	5.0	22	80		Chip - SM
1M5704A		33p	3.2	65	350		Chip - SM	1M6523C		110p	2.1	15	80		Chip - SM
1M5704B		33p	3.2	65	350		Chip - SM	1M6523D		110p	2.1	22	80		Chip - SM
1M5705A		39p	3.2	65	325		Chip - SM	1M6524		155p		12	35		Chip - SM
1M5705B		39p	3.2	65	325		Chip - SM	1M6524A		155p	1.7	15	70		Chip - SM
1M5706A		47p	3.2	65	300		Chip - SM	1M6524B		155p	5.0	22	70		Chip - SM
1M5706B		47p	3.2	65	300		Chip - SM	1M6524C		155p	2.1	15	70		Chip - SM
1M5707A		56p	3.2	65	225		Chip - SM	1M6524D		155p	2.1	22	70		Chip - SM
1M5707B		56p	3.2	65	225		Chip - SM	1M6525		200p		12	30		Chip - SM
1M5708A		68p	3.2	65	175		Chip - SM	1M6525A		200p	1.7	15	60		Chip - SM
1M5708B		68p	3.2	65	175		Chip - SM	1M6525B		200p	5.0	22	60		Chip - SM

变容二极管参数

型	号	C_1 (F)	C_1/C_2	V_{rm} (V)	Q_{min}	P_{dmax} (W)	外形与类型	型	号	C_1 (F)	C_1/C_2	V_{rm} (V)	Q_{min}	P_{dmax} (W)	外形与类型
1M6525C		200p	2.0	15	60		Chip - SM		1N952D	70p	3.8	60	7.0	400m	DO-7
1M6525D		200p	2.0	22	60		Chip - SM		1N953	100p		25	7.0	400m	DO-7
1M6530		40p	1.53	12	200		Chip - SM		1N953A	100p		25	7.0	400m	DO-7
1N544A06		27p	3.2	30	350	250m	DO-7		1N953B	100p		25	23	400m	DO-7
1N544A12		27p	3.2	30	350	250m	DO-7		1N953C	100p	2.4	2.4	7.0	400m	DO-7
1N544A18		27p	3.2	30	350	250m	DO-7		1N953D	100p	2.4	2.4	7.0	400m	DO-7
1N544B06		27p	3.2	30	350	250m	DO-7		1N954	35p	6.0	25	7.0	400m	DO-7
1N544B12		27p	3.2	30	350	250m	DO-7		1N954A	35p		25	20	400m	DO-7
1N544B18		27p	3.2	30	350	250m	DO-7		1N954B	35p		25	20	400m	DO-7
1N544C06		27p	3.2	30	350	250m	DO-7		1N954C	35p	2.5	25	7.0	400m	DO-7
1N544C12		27p	3.2	30	350	250m	DO-7		1N954D	35p	2.5	25	7.0	400m	DO-7
1N544C18		27p	3.2	30	350	250m	DO-7		1N955	50p		25	7.0	400m	DO-7
1N546A06		15p	2.8	30	550	250m	DO-7		1N955A	50p		25	20	400m	DO-7
1N546A12		15p	2.8	30	550	250m	DO-7		1N955B	50p		25	20	400m	DO-7
1N546A18		15p	2.8	30	550	250m	DO-7		1N955C	50p	2.4	25	7.0	400m	DO-7
1N546B06		15p	2.8	30	550	250m	DO-7		1N955D	50p	2.4	25	7.0	400m	DO-7
1N546B12		15p	2.8	30	550	250m	DO-7		1N956	70p		25	7.0	400m	DO-7
1N546B18		15p	2.8	30	550	250m	DO-7		1N956A	70p		25	20	400m	DO-7
1N546C06		15p	2.8	30	550	250m	DO-7		1N956B	70p		25	20	400m	DO-7
1N546C12		15p	2.8	30	550	250m	DO-7		1N956C	70p	1.7	25	7.0	400m	DO-7
1N546C18		15p	2.8	30	550	250m	DO-7		1N956e	70p	1.7	25	7.0	400m	DO-7
1N950		35p	2.4	130	7.0		DO-14		1N3182	33p		20	65	16	DO-7
1N950A		35p		130	7.0		DO-7		1N3488	56p					N/A
1N950B		35p		130	39	400m	DO-7		1N3551	50p		11	30	150m	DO-7
1N950C		35p	2.5	130	7.0	400m	DO-7		1N3552	21p		22	25	150m	DO-7
1N950D		35p	2.5	130	7.0	400m	DO-7		1N3552A	20p		25	25		DO-7
1N951		50p	2.4	130	7.0	250m	DO-14		1N3554	12p		100			Axial-D
1N951A		50p		80	7.0		DO-7		1N3555	20p		100	60		Axial-D
1N951B		50p		80	36	400m	DO-7		1N3556	47p		100	50		Axial-D
1N951C		50p	2.4	80	7.0	400m	DO-7		1N3557	24p		210	75		DO-14
1N951D		50p	2.4	80	7.0	400m	DO-7		1N3627	21p	5.0	20	25		DO-7
1N952		70p	2.4	60	7.0		DO-14		1N3628	50p		20	30		DO-7
1N952A		70p		60	7.0		DO-7		1N3770	2.0p		5.5			MELF-3.3
1N952B		70p		60	30	400m	DO-7		1N3945	20p		20	7.0	0.5	DO-14
1N952C		70p	3.8	60	7.0	400m	DO-7		1N3946	71p		90	7.0	0.5	DO-14

变容二极管参数

型	号	C_1 (F)	C_1/C_2	V_{rm} (V)	Q_{min}	P_{dmax} (W)	外形与类型	型	号	C_1 (F)	C_1/C_2	V_{rm} (V)	Q_{min}	P_{dmax} (W)	外形与类型
1N3947		70p		9.0	9.0	0.3	DO-14	1N4790D		15p	2.49	25	15	500m	DO-14
1N4091		4.2p		6.0			Ptn	1N4791		18p	2.48	20	15	400m	DO-14
1N4320		1.0p		640		4.0	Pill-C	1N4791A		18p	2.48	20	15	400m	DO-14
1N4386		50p		250	75	1.8	DO-4	1N4791B		18p	2.48	20	15	400m	DO-14
1N4387		35p		150	150	20	DO-4	1N4791C		18p	2.48	20	15	400m	DO-14
1N4388		20p		100	200	10	DO-4	1N4791D		18p	2.48	20	15	500m	DO-14
1N4598		22p		90	50	25	DO-7	1N4792		22p	2.46	20	15	500m	DO-14
1N4598A		22p		90	15		DO-7	1N4792A		22p	2.46	20	15	500m	DO-14
1N4599		47p	5.0	110	100	0.5	DO-14	1N4792B		22p	2.46	20	15	500m	DO-14
1N4599A		47p		110	100		DO-7	1N4792C		22p	2.46	20	15	500m	DO-14
1N4609		22p		35	60	25	DO-7	1N4792D		22p	2.46	20	15	500m	DO-14
1N4786		6.8p	2.58	25	15	500m	DO-14	1N4793		27p	2.46	20	15	500m	DO-14
1N4786A		6.8p	2.58	25	15	500m	DO-14	1N4793A		27p	2.46	20	15	500m	DO-14
1N4786B		6.8p	2.58	25	15	500m	DO-14	1N4793B		27p	2.46	20	15	500m	DO-14
1N4786C		6.8p	2.58	25	15	500m	DO-14	1N4793C		27p	2.46	20	15	500m	DO-14
1N4786D		6.8p	2.58	25	15	500m	DO-14	1N4793D		27p	2.46	20	15	500m	DO-14
1N4787		8.2p	2.58	25	15	500m	DO-14	1N4794		33p	2.46	20	15	500m	DO-14
1N4787A		8.2p	2.58	25	15	500m	DO-14	1N4794A		33p	2.46	20	15	500m	DO-14
1N4787B		8.2p	2.58	25	15	500m	DO-14	1N4794B		33p	2.46	20	15	500m	DO-14
1N4787C		8.2p	2.58	25	15	500m	DO-14	1N4794C		33p	2.46	20	15	500m	DO-14
1N4787D		8.2p	2.58	25	15	500m	DO-14	1N4794D		33p	2.46	20	15	500m	DO-14
1N4788		10p	2.5	25	15	500m	DO-14	1N4795		39p	2.44	55	15	500m	DO-14
1N4788A		10p	2.5	25	15	500m	DO-14	1N4795A		39p	2.44	55	15	500m	DO-14
1N4788B		10p	2.5	25	15	500m	DO-14	1N4795B		39p	2.44	55	15	500m	DO-14
1N4788C		10p	2.5	25	15	500m	DO-14	1N4795C		39p	2.44	55	15	500m	DO-14
1N4788D		10p	2.5	25	15	500m	DO-14	1N4795D		39p	2.44	55	15	500m	DO-14
1N4789		12p	2.49	25	15	500m	DO-14	1N4796		47p	2.43	20	15	500m	DO-14
1N4789A		12p	2.49	25	15	500m	DO-14	1N4796A		47p	2.43	20	15	500m	DO-14
1N4789B		12p	2.49	25	15	500m	DO-14	1N4796B		47p	2.43	20	15	500m	DO-14
1N4789C		12p	2.49	25	15	500m	DO-14	1N4796C		47p	2.43	20	15	500m	DO-14
1N4789D		12p	2.49	25	15	500m	DO-14	1N4796D		47p	2.43	20	15	500m	DO-14
1N4790		15p	2.49	25	15	500m	DO-14	1N4797		56p	2.42	15	15	500m	DO-14
1N4790A		15p	2.49	25	15	500m	DO-14	1N4797A		56p	2.42	15	15	500m	DO-14
1N4790B		15p	2.49	25	15	500m	DO-14	1N4797B		56p	2.42	15	15	500m	DO-14
1N4790C		15p	2.49	25	15	500m	DO-14	1N4797C		56p	2.42	15	15	500m	DO-14

变容二极管参数

型	号	C_1 (F)	C_1/C_2	V_{rm} (V)	Q_{min}	P_{dmax} (W)	外形与类型	型	号	C_1 (F)	C_1/C_2	V_{rm} (V)	Q_{min}	P_{dmax} (W)	外形与类型
1N4797D		56p	2.42	15	15	500m	DO-14	1N4804D		12p	2.49	100	15	500m	DO-14
1N4798		68p	2.4	15	15	500m	DO-14	1N4805		15p	2.49	100	15	500m	DO-14
1N4798A		68p	2.4	15	15	500m	DO-14	1N4805A		15p	2.49	100	15	500m	DO-14
1N4798B		68p	2.4	15	15	500m	DO-14	1N4805B		15p	2.49	100	15	500m	DO-14
1N4798C		68p	2.4	15	15	500m	DO-14	1N4805C		15p	2.49	100	15	500m	DO-14
1N4798D		68p	2.4	15	15	500m	DO-14	1N4805D		15p	2.49	100	15	500m	DO-14
1N4799		82p	2.36	15	15	500m	DO-14	1N4806		18p	2.48	90	15	500m	DO-14
1N4799A		82p	2.36	15	15	500m	DO-14	1N4806A		18p	2.48	90	15	500m	DO-14
1N4799B		82p	2.36	15	15	500m	DO-14	1N4806B		18p	2.48	90	15	500m	DO-14
1N4799C		82p	2.4	15	15	500m	DO-14	1N4806C		18p	2.48	90	15	500m	DO-14
1N4799D		82p	2.4	15	15	500m	DO-14	1N4806D		18p	2.48	90	15	500m	DO-14
1N4800		100p	2.33	15	15	500m	DO-14	1N4807		22p	2.46	90	15	500m	DO-14
1N4800A		100p	2.33	15	15	500m	DO-14	1N4807A		22p	2.46	90	15	500m	DO-14
1N4800B		100p	2.33	15	15	500m	DO-14	1N4807B		22p	2.46	90	15	500m	DO-14
1N4800C		100p	2.33	15	15	500m	DO-14	1N4807C		22p	2.46	90	15	500m	DO-14
1N4800D		100p	2.33	15	15	500m	DO-14	1N4807D		22p	2.46	90	15	500m	DO-14
1N4801		6.8p	2.58	100	15	500m	DO-14	1N4808		27p	2.46	65	15	500m	DO-14
1N4801A		6.8p	2.56	100	15	500m	DO-14	1N4808A		27p	2.46	65	15	500m	DO-14
1N4801B		6.8p	2.56	100	15	500m	DO-14	1N4808B		27p	2.46	65	15	500m	DO-14
1N4801C		6.8p	2.56	100	15	500m	DO-14	1N4808C		27p	2.46	65	15	500m	DO-14
1N4801D		6.8p	2.56	100	15	500m	DO-14	1N4808D		27p	2.46	65	15	500m	DO-14
1N4802		8.2p	2.58	100	15	500m	DO-14	1N4809		33p	2.46	60	15	500m	DO-14
1N4802A		8.2p	2.58	100	15	500m	DO-14	1N4809A		33p	2.46	60	15	500m	DO-14
1N4802B		8.2p	2.58	100	15	500m	DO-14	1N4809B		33p	2.46	60	15	500m	DO-14
1N4802C		8.2p	2.58	100	15	500m	DO-14	1N4809C		33p	2.46	60	15	500m	DO-14
1N4802D		8.2p	2.58	100	15	500m	DO-14	1N4809D		33p	2.46	60	15	500m	DO-14
1N4803		10p	2.5	100	15	500m	DO-14	1N4810		39p	2.44	55	15	500m	DO-14
1N4803A		10p	2.5	100	15	500m	DO-14	1N4810A		39p	2.44	55	15	500m	DO-14
1N4803B		10p	2.5	100	15	500m	DO-14	1N4810B		39p	2.44	55	15	500m	DO-14
1N4803C		10p	2.5	100	15	500m	DO-14	1N4810C		39p	2.44	55	15	500m	DO-14
1N4803D		10p	2.5	100	15	500m	DO-14	1N4810D		39p	2.44	55	15	500m	DO-14
1N4804		12p	2.49	100	15	500m	DO-14	1N4811		47p	2.43	50	15	500m	DO-14
1N4804A		12p	2.49	100	15	500m	DO-14	1N4811A		47p	2.43	50	15	500m	DO-14
1N4804B		12p	2.49	100	15	500m	DO-14	1N4811B		47p	2.43	50	15	500m	DO-14
1N4804C		12p	2.49	100	15	500m	DO-14	1N4811C		47p	2.43	50	15	500m	DO-14

变容二极管参数

型	号	C_1 (F)	C_1/C_2	V_{rm} (V)	Q_{min}	P_{dmax} (W)	外形与类型	型	号	C_1 (F)	C_1/C_2	V_{rm} (V)	Q_{min}	P_{dmax} (W)	外形与类型
1N4811D		47p	2.43	50	15	500m	DO-14	1N5140-06		10p	2.8	60	300	250m	DO-7
1N4812		56p	2.42	40	15	500m	DO-14	1N5140-12		10p	2.8	60	300	250m	DO-7
1N4812A		56p	2.42	40	15	500m	DO-14	1N5140-18		10p	2.8	60	300	250m	DO-7
1N4812B		56p	2.42	40	15	500m	DO-14	1N5140A		10p	2.8	60	300	400m	DO-7
1N4812C		56p	2.42	40	15	500m	DO-14	1N5141		12p	2.8	60	300	400m	DO-7
1N4812D		56p	2.42	40	15	500m	DO-14	1N5141-06		12p	2.8	60	300	250m	DO-7
1N4813		68p	2.4	15	15	500m	DO-14	1N5141-12		12p	2.8	60	300	250m	DO-7
1N4813A		68p	2.4	15	15	500m	DO-14	1N5141-18		12p	2.8	60	300	250m	DO-7
1N4813B		68p	2.4	15	15	500m	DO-14	1N5141A		12p	2.8	60	300	400m	DO-7
1N4813C		68p	2.4	15	15	500m	DO-14	1N5142		15p	2.8	60	250	400m	DO-7
1N4813D		82p	2.4	15	15	500m	DO-14	1N5142-06		15p	2.8	60	250	250m	DO-7
1N4814		82p	2.4	20	15	500m	DO-14	1N5142-12		15p	2.8	60	250	250m	DO-7
1N4814A		82p	2.4	20	15	500m	DO-14	1N5142-18		15p	2.8	60	250	250m	DO-7
1N4814B		82p	2.4	20	15	500m	DO-14	1N5142A		15p	2.8	60	250	400m	DO-7
1N4814C		82p	2.4	20	15	500m	DO-14	1N5143		18p	2.8	60	250	400m	DO-7
1N4814D		82p	2.4	20	15	500m	DO-14	1N5143-06		18p	2.8	60	250	250m	DO-7
1N4815		100p	2.33	20	15	500m	DO-14	1N5143-12		18p	2.8	60	250	250m	DO-7
1N4815A		100p	2.33	20	15	500m	DO-14	1N5143-18		18p	2.8	60	250	250m	DO-7
1N4815B		100p	2.33	20	15	500m	DO-14	1N5143A		18p	2.8	60	250	400m	DO-7
1N4815C		100p	2.33	20	15	500m	DO-14	1N5144		22p	3.2	60	200	400m	DO-7
1N4815D		100p	2.33	20	15	500m	DO-14	1N5144-06		22p	3.2	60	200	250m	DO-7
1N4885		33p	2.33	150	15	20	DO-4	1N5144-12		22p	3.2	60	200	250m	DO-7
1N4886				120		20	DO-4	1N5144-18		22p	3.2	60	200	250m	DO-7
1N5136		1.0p	2.0	60	350	400m	DO-7	1N5144A		22p	3.2	60	200	400m	DO-7
1N5136A		1.0p	2.0	60	350	400m	DO-7	1N5145		27p	3.2	60	200	400m	DO-7
1N5137		3.3p	2.2	60	350	400m	DO-7	1N5145-06		27p	3.2	60	200	250m	DO-7
1N5137A		3.3p	2.2	60	350	400m	DO-7	1N5145-12		27p	3.2	60	200	250m	DO-7
1N5138		2.2p	2.0	60	350	400m	DO-7	1N5145-18		27p	3.2	60	200	250m	DO-7
1N5138A		2.2p	2.0	60	350	400m	DO-7	1N5145A		27p	3.2	60	200	400m	DO-7
1N5139		6.8p	2.7	60	350	400m	DO-7	1N5146		33p	3.2	60	200	400m	DO-7
1N5139-06		6.8p	2.7	60	350	250m	DO-7	1N5146-06		33p	3.2	60	200	250m	DO-7
1N5139-12		6.8p	2.7	60	350	250m	DO-7	1N5146-12		33p	3.2	60	200	250m	DO-7
1N5139-18		6.8p	2.7	60	350	250m	DO-7	1N5146-18		33p	3.2	60	200	250m	DO-7
1N5139A		6.8p	2.7	60	350	400m	DO-7	1N5146A		33p	3.2	60	200	400m	DO-7
1N5140		10p	2.8	60	300	400m	DO-7	1N5147		39p	3.2	60	200	400m	DO-7

变容二极管参数

型 号	C_1 (F)	C_1/C_2	V_{rm} (V)	Q_{min}	P_{dmax} (W)	外形与类型	型 号	C_1 (F)	C_1/C_2	V_{rm} (V)	Q_{min}	P_{dmax} (W)	外形与类型
1N5147-06	39p	3.2	60	200	250m	DO-7	1N5440D	4.7p		30	450	400m	DO-7
1N5147-12	39p	3.2	60	200	250m	DO-7	1N5441	6.8p	2.5	30	450	400m	DO-7
1N5147-18	39p	3.2	60	200	250m	DO-7	1N5441A	6.8p	2.5	30	450	400m	DO-7
1N5147A	39p	3.2	60	200	400m	DO-7	1N5441A06	6.8p	3.1	30	450	250m	DO-7
1N5148	48p	3.2	60	200	400m	DO-7	1N5441A12	6.8p	3.1	30	450	250m	DO-7
1N5148-06	48p	3.2	60	200	250m	DO-7	1N5441A18	6.8p	3.1	30	450	250m	DO-7
1N5148-12	48p	3.2	60	200	250m	DO-7	1N5441B	6.8p	2.5	30	450	400m	DO-7
1N5148-18	48p	3.2	60	200	250m	DO-7	1N5441B06	6.8p	3.1	30	450	250m	DO-7
1N5148A	48p	3.2	60	200	400m	DO-7	1N5441B12	6.8p	3.1	30	450	250m	DO-7
1N5149	15p	3.2	80	200	10	Pin	1N5441B18	6.8p	3.1	30	450	250m	DO-7
1N5150	15p		80		14	Pin	1N5441C	6.8p	2.5	30	450	400m	DO-7
1N5150A	15p		80		21	Pin	1N5441C06	6.8p	2.5	30	450	250m	DO-7
1N5151	6.2p		75		5.5	Pill-B	1N5441C12	6.8p	2.5	30	450	250m	DO-7
1N5152	6.2p		75		7.5	Pill-C	1N5441C18	6.8p	2.5	30	450	250m	DO-7
1N5152A	6.0p		75		8.4	Pill-C	1N5441D	6.8p	2.5	30	450	400m	DO-7
1N5153	6.2p		75		5.5	Pin	1N5442	8.2p	2.5	30	450	400m	DO-7
1N5153A	6.0p		75		8.4	Pin	1N5442A	8.2p	2.5	30	450	400m	DO-7
1N5154	2.0p		35		3.5	Pill-B	1N5442A06	8.2p	3.1	30	450	250m	DO-7
1N5155A	1.9p		35		6.2	Pill-C	1N5442A12	8.2p	3.1	30	450	250m	DO-7
1N5156	750f		20		3.3	Pill-B	1N5442A18	8.2p	3.1	30	450	250m	DO-7
1N5157	750f		20		3.3	Pill-C	1N5442B	8.2p	2.5	30	450	400m	DO-7
1N5421	150p	5.8	200	200	25	Axial-8	1N5442B06	8.2p	3.1	30	450	250m	DO-7
1N5422	250p	5.8	200	200	25	Axial-8	1N5442B12	8.2p	3.1	30	450	250m	DO-7
1N5423	500p	5.8	200	150	25	Axial-8	1N5442B18	8.2p	3.1	30	450	250m	DO-7
1N5424	500p	4.2	100	300	25	Axial-8	1N5442C	8.2p	2.5	30	450	400m	DO-7
1N5425	1.0n	4.2	100	200	25	Axial-8	1N5442C06	8.2p	3.1	30	450	250m	DO-7
1N5439	3.3p	2.3	30	450	400m	DO-7	1N5442C12	8.2p	3.1	30	450	250m	DO-7
1N5439A	3.3p	2.3	30	450	400m	DO-7	1N5442C18	8.2p	3.1	30	450	250m	DO-7
1N5439B	3.3p	2.3	30	450	400m	DO-7	1N5442D	8.2p	2.5	30	450	400m	DO-7
1N5439C	3.3p	2.3	30	450	400m	DO-7	1N5443A06	10p	3.1	30	400	250m	DO-7
1N5439D	3.3p	2.3	30	450	400m	DO-7	1N5443A12	10p	3.1	30	400	250m	DO-7
1N5440	4.7p		30	450	400m	DO-7	1N5443A18	10p	3.1	30	400	250m	DO-7
1N5440A	4.7p		30	450	400m	DO-7	1N5443B06	10p	3.1	30	400	250m	DO-7
1N5440B	4.7p		30	450	400m	DO-7	1N5443B12	10p	3.1	30	400	250m	DO-7
1N5440C	4.7p		30	450	400m	DO-7	1N5443B18	10p	3.1	30	400	250m	DO-7

变容二极管参数

型	号	C_1 (F)	C_1/C_2	V_{rm} (V)	Q_{min}	P_{max} (W)	外形与类型	型	号	C_1 (F)	C_1/C_2	V_{rm} (V)	Q_{min}	P_{max} (W)	外形与类型
1N543C06		10p	3.1	30	400	250m	DO-7	1N5446A18		18p	3.1	30	350	250m	DO-7
1N543C12		10p	3.1	30	400	250m	DO-7	1N5446B		18p	2.6	30	350	400m	DO-7
1N543C18		10p	3.1	30	400	250m	DO-7	1N5446B06		18p	3.1	30	350	250m	DO-7
1N5444		12p	2.6	30	400	400m	DO-7	1N5446B12		18p	3.1	30	350	250m	DO-7
1N5444A		12p	2.6	30	400	400m	DO-7	1N5446B18		18p	3.1	30	350	250m	DO-7
1N5444A06		12p	3.1	30	400	250m	DO-7	1N5446C		18p	2.6	30	350	400m	DO-7
1N5444A12		12p	3.1	30	400	250m	DO-7	1N5446C06		18p	3.1	30	350	250m	DO-7
1N5444A18		12p	3.1	30	400	250m	DO-7	1N5446C12		18p	3.1	30	350	250m	DO-7
1N5444B		12p	2.6	30	400	400m	DO-7	1N5446C18		18p	3.1	30	350	250m	DO-7
1N5444B06		12p	3.1	30	400	250m	DO-7	1N5446D		18p	2.6	30	350	400m	DO-7
1N5444B12		12p	3.1	30	400	250m	DO-7	1N5447		20p	2.6	30	350	400m	DO-7
1N5444B18		12p	3.1	30	400	250m	DO-7	1N5447A		20p	2.6	30	350	400m	DO-7
1N5444C		12p	2.6	30	400	400m	DO-7	1N5447A06		20p	3.1	30	350	250m	DO-7
1N5444C06		12p	3.1	30	400	250m	DO-7	1N5447A12		20p	3.1	30	350	250m	DO-7
1N5444C12		12p	3.1	30	400	250m	DO-7	1N5447A18		20p	2.6	30	350	250m	DO-7
1N5444C18		12p	3.1	30	400	250m	DO-7	1N5447B		20p	3.1	30	350	400m	DO-7
1N5444D		12p	2.6	30	400	400m	DO-7	1N5447B06		20p	3.1	30	350	250m	DO-7
1N5445		15p	2.6	30	400	400m	DO-7	1N5447B12		20p	3.1	30	350	250m	DO-7
1N5445A		15p	2.6	30	400	400m	DO-7	1N5447B18		20p	3.1	30	350	250m	DO-7
1N5445A06		15p	3.1	30	400	250m	DO-7	1N5447C		20p	2.6	30	350	400m	DO-7
1N5445A12		15p	3.1	30	400	250m	DO-7	1N5447C06		20p	3.1	30	350	250m	DO-7
1N5445A18		15p	3.1	30	400	250m	DO-7	1N5447C12		20p	3.1	30	350	250m	DO-7
1N5445B		15p	2.6	30	400	400m	DO-7	1N5447C18		20p	3.1	30	350	250m	DO-7
1N5445B06		15p	3.1	30	400	250m	DO-7	1N5447D		20p	2.6	30	350	400m	DO-7
1N5445B12		15p	3.1	30	400	250m	DO-7	1N5448		22p	2.6	30	350	400m	DO-7
1N5445B18		15p	3.1	30	400	250m	DO-7	1N5448A		22p	2.6	30	350	400m	DO-7
1N5445C		15p	2.6	30	400	400m	DO-7	1N5448A06		22p	3.2	30	350	250m	DO-7
1N5445C06		15p	3.1	30	400	250m	DO-7	1N5448A12		22p	3.2	30	350	250m	DO-7
1N5445C12		15p	3.1	30	400	250m	DO-7	1N5448A18		22p	3.2	30	350	250m	DO-7
1N5445C18		15p	3.1	30	400	250m	DO-7	1N5448B		22p	2.6	30	350	400m	DO-7
1N5445D		15p	2.6	30	400	400m	DO-7	1N5448B06		22p	3.2	30	350	250m	DO-7
1N5446		18p	2.6	30	350	400m	DO-7	1N5448B12		22p	3.2	30	350	250m	DO-7
1N5446A		18p	2.6	30	350	400m	DO-7	1N5448B18		22p	3.2	30	350	250m	DO-7
1N5446A06		18p	3.1	30	350	250m	DO-7	1N5448C		22p	2.6	30	350	400m	DO-7
1N5446A12		18p	3.1	30	350	250m	DO-7	1N5448C06		22p	3.2	30	350	250m	DO-7

变容二极管参数

型	号	C_1 (F)	C_1/C_2	V_{rm} (V)	Q_{min}	P_{dmax} (W)	外形与类型	型	号	C_1 (F)	C_1/C_2	V_{rm} (V)	Q_{min}	P_{dmax} (W)	外形与类型
1N5448C12		22p	3.2	30	350	250m	DO-7	1N5451D		39p	2.6	30	300	400m	DO-7
1N5448C18		22p	3.2	30	350	250m	DO-7	1N5452		47p	2.6	30	250	400m	DO-7
1N5448D		22p	2.6	30	350	400m	DO-7	1N5452A		47p	2.6	30	250	400m	DO-7
1N5449		27p	2.6	30	350	400m	DO-7	1N5452A06		47p	2.6	30	250	250m	DO-7
1N5449A		27p	2.6	30	350	400m	DO-7	1N5452A12		47p	2.6	30	250	250m	DO-7
1N5449B		27p	2.6	30	350	400m	DO-7	1N5452A18		47p	2.6	30	250	250m	DO-7
1N5449C		27p	2.6	30	350	400m	DO-7	1N5452B		47p	2.6	30	250	400m	DO-7
1N5449D		27p	2.6	30	350	400m	DO-7	1N5452B06		47p	2.6	30	250	250m	DO-7
1N5450		33p	2.6	30	350	400m	DO-7	1N5452B12		47p	2.6	30	250	250m	DO-7
1N5450A		33p	2.6	30	350	400m	DO-7	1N5452B18		47p	2.6	30	250	250m	DO-7
1N5450A06		33p	3.2	30	350	250m	DO-7	1N5452C		47p	2.6	30	250	400m	DO-7
1N5450A12		33p	3.2	30	350	250m	DO-7	1N5452C06		47p	2.6	30	250	250m	DO-7
1N5450A18		33p	3.2	30	350	250m	DO-7	1N5452C12		47p	2.6	30	250	250m	DO-7
1N5450B		33p	2.6	30	350	400m	DO-7	1N5452C18		47p	2.6	30	250	250m	DO-7
1N5450B06		33p	3.2	30	350	250m	DO-7	1N5452D		47p	2.6	30	250	400m	DO-7
1N5450B12		33p	3.2	30	350	250m	DO-7	1N5453		56p	2.6	30	200	400m	DO-7
1N5450B18		33p	3.2	30	350	250m	DO-7	1N5453A		56p	2.6	30	200	400m	DO-7
1N5450C		33p	2.6	30	350	400m	DO-7	1N5453A06		56p	2.6	30	200	250m	DO-7
1N5450C06		33p	3.2	30	350	250m	DO-7	1N5453A12		56p	2.6	30	200	250m	DO-7
1N5450C12		33p	3.2	30	350	250m	DO-7	1N5453A18		56p	2.6	30	200	250m	DO-7
1N5450C18		33p	3.2	30	350	250m	DO-7	1N5453B		56p	2.6	30	200	400m	DO-7
1N5450D		33p	2.6	30	350	400m	DO-7	1N5453B06		56p	2.6	30	200	250m	DO-7
1N5451		39p	2.6	30	300	400m	DO-7	1N5453B12		56p	2.6	30	200	250m	DO-7
1N5451A		39p	2.6	30	300	400m	DO-7	1N5453B18		56p	2.6	30	200	250m	DO-7
1N5451A06		39p	3.2	30	300	250m	DO-7	1N5453C		56p	2.6	30	200	400m	DO-7
1N5451A12		39p	3.2	30	300	250m	DO-7	1N5453C06		56p	2.6	30	200	250m	DO-7
1N5451A18		39p	3.2	30	300	250m	DO-7	1N5453C12		56p	2.6	30	200	250m	DO-7
1N5451B		39p	2.6	30	300	400m	DO-7	1N5453C18		56p	2.6	30	200	250m	DO-7
1N5451B06		39p	3.2	30	300	250m	DO-7	1N5453D		56p	2.6	30	200	400m	DO-7
1N5451B12		39p	3.2	30	300	250m	DO-7	1N5454		68p	2.7	30	175	400m	DO-7
1N5451B18		39p	3.2	30	300	250m	DO-7	1N5454A		68p	2.7	30	175	400m	DO-7
1N5451C		39p	2.6	30	300	400m	DO-7	1N5454A06		68p	2.7	30	175	250m	DO-7
1N5451C06		39p	3.2	30	300	250m	DO-7	1N5454A12		68p	2.7	30	175	250m	DO-7
1N5451C12		39p	3.2	30	300	250m	DO-7	1N5454A18		68p	2.7	30	175	250m	DO-7
1N5451C18		39p	3.2	30	300	250m	DO-7	1N5454B		68p	2.7	30	175	400m	DO-7