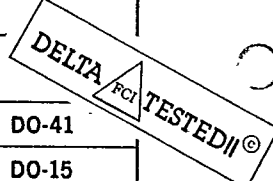


SILICON RECTIFIERS

T.OI-13

PRV(V) TYPE NO. Io(A)	50	100	200	400	600	800	1000	PACKAGE
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1.0	1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007	DO-41
1.5	1N5391	1N5392	1N5393	1N5395	1N5397	1N5398	1N5399	DO-15
3.0	1N5400	1N5401	1N5402	1N5404	1N5406	1N5407	1N5408	DO-27
6.0	FR6A01	FR6A02	FR6A03	FR6A04	FR6A05	FR6A06	FR6A07	R-6

FAST RECOVERY RECTIFIERS

1.0	FR101	FR102	FR103	FR104	FR105	FR106	FR107	DO-41
1.5	FR151	FR152	FR153	FR154	FR155	FR156	FR157	DO-15
2.0	FR201	FR202	FR203	FR204	FR205	FR206	FR207	DO-15
2.5	FR251	FR252	FR253	FR254	FR255	FR256	FR257	R-3
3.0	FR301	FR302	FR303	FR304	FR305	FR306	FR307	DO-27
6.0	FR601	FR602	FR603	FR604	FR605	FR606	FR607	R-6

LEAD-MOUNT RECTIFIERS-GLASS PASSIVATED CHIP

PSP10 1.0A	1N4001PSP	1N4002PSP	1N4003PSP	1N4004PSP	1N4005PSP	1N4006PSP	1N4007PSP	DO-41
PSP15 1.5A	PSP15A	PSP15B	PSP15D	PSP15G	PSP15J	PSP15K	PSP15M	DO-15
PSP30 3.0A	PSP30A	PSP30B	PSP30D	PSP30G	PSP30J	PSP30K	PSP30M	DO-27

FAST RECOVERY GLASS PASSIVATED RECTIFIERS

Trr : 150ns max.(PRV 400V)  
250ns max.(PRV = 600V)  
500ns max.(PRV 800V)

1.0	FR101G	FR102G	FR103G	FR104G	FR105G	FR106G	FR107G	DO-41
1.5	FR151G	FR152G	FR153G	FR154G	FR155G	FR156G	FR157G	DO-15
3.0	FR301G	FR302G	FR303G	FR304G	FR305G	FR306G	FR307G	DO-27
6.0	FR601G	FR602G	FR603G	FR604G	FR605G	FR606G	FR607G	R-6

SUPER FAST RECTIFIERS

Trr:35ns max.

PRV(V) TYPE NO. Io(A)	50	100	150	200	PACKAGE
1.0	SF11	SF12	SF13	SF14	DO-41
2.0	SF21	SF22	SF23	SF24	DO-15
3.0	SF31	SF32	SF33	SF34	DO-27
6.0	SF61	SF62	SF63	SF64	DO-27

HIGH EFFICIENCY RECTIFIERS

Trr=50~60ns max.

PRV(V) TYPE NO. Io(A)	50	100	200	300	400	PACKAGE
1.0	HER101	HER102	HER103	HER104	HER105	DO-41
1.5	HER151	HER152	HER153	HER154	HER155	DO-15
3.0	HER301	HER302	HER303	HER304	HER305	DO-27
6.0	HER601	HER602	HER603	HER604	HER6054	R-6

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T-01-13

HIGH-VOLTAGE RECTIFIERS

SERIES	PRVV)	Io(A)@Ta(C)	Ifsm(A)	VF(V)	Ir(ua)	PACKAGE
GP05-10	1000	0.5@55	30	2.1@0.5A	5	DO-41
GP05-15	1500	0.555	30	2.1@0.5A	5	DO-41
GP05-18	1800	0.5@55	30	2.1@0.5A	5	DO-41
GP05-20	2000	0.5@55	30	2.1@0.5A	5	DO-41
GP02-25	2500	0.2@55	25	3.0@0.2A	5	DO-41
GP02-30	3000	0.2@55	25	3.0@0.2A	5	DO-41
GP02-35	3500	0.2@55	25	3.0@0.2A	5	DO-41
GP02040	4000	0.2@55	25	3.0@0.2A	5	DO-15
GP02-50	5000	0.2@55	20	3.0@0.2A	5	DO-15
GP02-60	6000	0.2@55	20	3.0@0.2A	5	DO-15

HV07-08	8000	0.750@60	50	14.0@0.75A	5	HV07
HV07-10	10000	0.759@60	50	14.0@0.75A	5	HV07
HV07-12	12000	0.750@60	50	14.0@0.75A	5	HV07
HV07-14	14000	0.750@60	50	14.0@0.75A	5	HV07
HV07-15	15000	0.750@60	50	14.0@0.75A	5	HV07
HV07-16	16000	0.75@60	50	14.0@0.75A	5	HV07

HIGH VOLTAGE FAST RECOVERY RECTIFIERS- 500NS

FR05-10	1000	0.5@55	30	2.0@0.5A	5	DO-41
FR05-15	1500	0.5@55	30	2.0@0.5A	5	DO-41
FR05-20	2000	0.5@55	30	2.0@0.5A	5	DO-41
FR02-25	2500	0.2@55	30	4.0@0.2A	5	DO-41
FR02-30	3000	0.2@55	30	4.0@0.2A	5	DO-41
FR02-40	4000	0.2@55	30	12.0@0.2A	5	DO-15
FR02-50	5000	0.2@55	30	12.0@0.2A	5	DO-15
FR02-60	6000	0.2@55	30	12.0@0.2A	5	DO-15

BRIDGE RECTIFIERS

SERIES	Io(A)	VF(V)	Ifsm(A)	PRV(V)	PACKAGE
* DF	1.0	1.1	50	50-1000	DIP
WO	1.5	1.0	50	50-1000	WO
2WO	2.0	1.0@1A	50	50-1000	WO
MDA	2.0	1.0@1A	50	50-1000	KBL
KBL4	4.0	1.9	200	50-1000	KBL
KBU4	4.0	1.0	200	50-1000	KBU
KBU6	6.0	1.0	250	50-1000	KBU
KBU8	8.0	1.0	300	50-1000	KBU
KBP/KBPC10	10.0	1.2@5A	200	50-1000	KBPC
KBP/KBPC15	15.0	1.2@7.5A	300	50-1000	KBPC
KBP/KBPC25	25.0	1.2@12.5A	300	50-1000	KBPC
KBP/KBPC35	35.0	1.2@17.5A	400	50-1000	KBPC

\* -- GLASS PASSIVATED CHIPS

RECOVERY BRIDGE RECTIFIERS

SERIES	Io(A)	VF(V)	Ifsm(A)	PRV(V)	SPEED NS	PACKAGE
RDG100	1.0	1.0	50	50-600	200-350	DIP
RWO	1.5	1.0	50	50-1000	200-500	WO
RKBL4	4.0	1.3	200	50-1000	200-500	KBL
RKBU6	6.0	1.3	250	50-1000	200	KBU
RKBU8	8.0	1.3	300	50-1000	200-350	KBU
RKBP/RKBPC	10.0	1.3@5A	200	50-1000	200-350	KBPC
RKBP/RKBPC	15.0	1.3@7.5A	300	50-1000	200-350	KBPC
RKBP/RKBPC	25.0	1.3@12.5A	300	50-1000	200-350	KBPC
RKBP/RKBPC	35.0	1.3@17.5	400	50-1000	200-350	KBPC

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SCHOTTKY BARRIER RECTIFIERS

T-01-13

TYPE	MAX.AVE. RECT. CURRENT	PEAK INVERSE VOLTAGE	MAX.FWD. SURGE CURRENT 1Cycle, 60Hz	SURGE INVER. VOLT.PULSE TEST,0.5ms Duty Cycle 1/40	MAX. REVERSE CURRENT @TC 25°C @RATED PIV	MAX FORWARD VOLTAGE @TC 25°C @RATED CURRENT
P/N	IO @TC (A) (°C)	PIV (V)	IFSM (APK)	VIPSM (V)	IR (mA)	VFM (V)

1 AMP SERIES

(DO-41 PACKAGE)

1N5817	1	90	20	25	25	1	0.45
1N5818	1	90	30	25	35	1	0.55
1N5819	1	90	40	25	45	1	0.60
SR120	1	75	20	40	25	1	0.55
SR130	1	75	20	40	35	1	0.55
SR140	1	75	40	40	45	1	0.55
SR150	1	100	50	40	55	1	0.70
SR160	1	100	60	40	65	1	0.70

3 AMP SERIES

(DO-201AD PACKAGE)

1N5820	3	95	20	80	25	2	0.475
1N5821	3	95	30	80	35	2	0.500
1N5822	3	95	40	80	45	2	0.525
SR320	3	75	20	150	25	3	0.550
SR330	3	75	30	150	35	3	0.550
SR340	3	75	40	150	45	3	0.550
SR350	3	100	50	150	55	3	0.750
SR360	3	100	60	150	65	3	0.750

5 AMP SERIES

(TO-220 PACKAGE)

SR530(r)	5	125	30	100	35	5	0.55
SR535(r)	5	125	35	100	35	5	0.55
SR540(r)	5	125	40	100	45	5	0.55
SR545(r)	5	125	45	100	45	5	0.55
SR550(r)	5	125	50	100	55	5	0.65
SR560(r)	5	125	60	100	65	5	0.65

8 AMP SERIES

(TO-220 PACKAGE)

SR830(r)	8	125	30	150	35	5	0.60
SR835(r)	8	125	35	150	35	5	0.60
SR840(r)	8	125	40	150	45	5	0.60
SR845(r)	8	125	45	150	45	5	0.60
SR850(r)	8	125	50	150	55	5	0.70
SR860(r)	8	125	60	150	65	5	0.70

10 AMP SERIES

(TO-220 PACKAGE)

SR1030	10	125	30	125	35	5	0.55
SR1035	10	125	35	125	35	5	0.55
SR1040	10	125	40	125	45	5	0.55
SR1045	10	125	45	125	45	5	0.55
SR1050	10	125	50	125	55	5	0.65
SR1060	10	125	60	125	65	5	0.65

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16 AMP SERIES

(TO-220 PACKAGE)

SR1630	16	125	30	250	35	5	0.60
SR1635	16	125	35	250	35	5	0.60
SR1640	16	125	40	250	45	5	0.60
SR1645	16	125	45	250	45	5	0.60
SR1650	16	125	50	250	55	5	0.70
SR1660	16	125	60	250	65	5	0.70

(TO-3P PACKAGE)

SR1630z	16	125	30	250	35	5	0.60
SR1635z	16	125	35	250	35	5	0.60
SR1640z	16	125	40	250	45	5	0.60
SR1645z	16	125	45	250	45	5	0.60
SR1650z	16	125	50	250	55	5	0.70
SR1660z	16	125	60	250	65	5	0.70

(TO-3P PACKAGE)

SR2030	20	125	30	250	35	5	0.55
SR2035	20	125	35	250	35	5	0.55
SR2040	20	125	40	250	45	5	0.55
SR2045	20	125	45	250	45	5	0.55
SR2050	20	125	50	250	55	5	0.65
SR2060	20	125	60	250	65	5	0.65

25 AMP SERIES

(TO-3P PACKAGE)

SR2530	25	125	30	250	35	5	0.55
SR2535	25	125	35	250	35	5	0.55
SR2540	25	125	40	250	45	5	0.55
SR2545	25	125	45	250	45	5	0.55
SR2550	25	125	50	250	55	5	0.55
SR2560	25	125	60	250	65	5	0.55

30 AMP SERIES

(TO-3P PACKAGE)

SR3030	30	125	30	300	35	5	0.60
SR3035	30	125	35	300	35	5	0.60
SR3040	30	125	40	300	45	5	0.60
SR3045	30	125	45	300	45	5	0.60
SR3050	30	125	50	300	55	5	0.70
SR3060	30	125	60	300	60	5	0.70

40 AMP SERIES

(TO-3P PACKAGE)

SR4030	40	125	30	300	35	10	0.55
SR4035	40	125	35	300	35	10	0.55
SR4040	40	125	40	300	45	10	0.55
SR4045	40	125	45	300	45	10	0.55
SR4050	40	125	50	300	55	10	0.65
SR4060	40	125	60	300	55	10	0.65

50 AMP SERIES

(TO-3P PACKAGE)

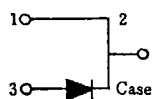
SR5030	50	125	30	400	35	10	0.65
SR5035	50	125	35	400	35	10	0.65
SR5040	50	125	40	400	45	10	0.65
SR5045	50	125	45	400	45	10	0.65
SR5050	50	125	50	400	55	10	0.75
SR5060	50	125	60	400	65	10	0.75

60 AMP SERIES

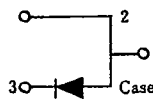
(TO-3P PACKAGE)

SR6030	60	125	30	600	35	10	0.65
SR6035	60	125	35	600	35	10	0.65
SR6040	60	125	40	600	45	10	0.65
SR6045	60	125	45	600	45	10	0.65
SR6050	60	125	50	600	55	10	0.75
SR6060	60	125	60	600	65	10	0.75

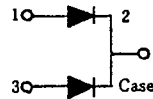
\*Above Devices available in Common Cathode, Anode, or Doubler Configurations.



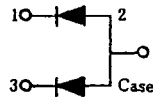
Case Positive



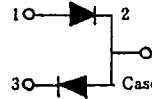
Case Negative  
Suffix "r"



Common Cathode  
Suffix "c"



Common Anode  
Suffix "a"



Doubler  
Suffix "d"

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# PACKAGES

FREDERICK COMPONENTS

41E D ■ 3719482 0000172 6 ■ FCI

T-01-13

### DO-41

### DO-15

### DO-201AD

### DO-201

### R-6

### HV07

### DIP

### WO

STANDARD SIZE 0.360 MAX (9.1)

0.137 MAX (3.5)

L1 L2

0.8φ

TYPE	L1 (MIN)	L2 (MIN)
LONG LEAD	1.2 (30)	1.0 (25.4)
SHORT LEAD	0.5 (12.7)	0.4 (10.1)

180 (4.6) 220 (5.6)

### MDA

### KBL

LEADS 050 (1.3) DIA SPACED ON .200 (5.1) CENTERS

### KBU

### KBPC

Metal heat sink

Epoxy case

### KBPC

Metal heat sink

Epoxy case

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