

Semiconductors – Discrete Devices

Low Power Signal Diodes — continued

Low Leakage



DO-35 L = 3.8, Dia. = 1.88



LL-34 L = 3.5, Dia. = 1.5



TO-18 1 2 3
(a) k — a k
(b) a case k



TO-92

V_{RRM} max V	I_F (av) max mA	V_F V @ I_F mA	I_F mA	Package	Mfr.	Mfrs. List No.
35	10	1.5	5	TO-92	SLX	JPAD50
35	50	1.0	10	TO-18(a)	PS	BAV45
45	50	1.5	5	TO-18(b)	SLX	PAD5
125	200	0.8	10	DO-35	FCH	1N3595
150	200	1.0	200	LL34	FCH	FDLL300
150	200	1.15	300	DO-35	FCH	FDH333
150	500	1.0	200	DO-35	FCH	FDH300

Order Multiple = 1

Mfrs. List No.	Order Code	1+	25+	100+	1K+
BAV45	367-916 †	0.970	0.890	0.840	0.820
FDH300	367-989	0.850	0.600	0.440	0.360
FDH333	741-036	0.792	0.555	0.415	0.336
FDLL300	741-012	0.600	0.300	0.218	0.171
JPAD50	367-990	0.970	0.600	0.450	0.350
PAD5	368-052	1.970	1.210	0.930	0.710

Order Multiple = 10

Mfrs. List No.	Order Code	10+	100+	250+	1K+
1N3595	368-090	0.375	0.256	0.189	0.187

† Available until stocks are exhausted

Price Each

Small Signal



Coloured band indicates cathode

- a) L = 4.25, Dia = 1.85 b) L = 5.2, Dia = 2.7 c) L = 3.0, Dia = 1.7
d) L = 3.81, Dia = 1.71 e) L = 7.6, Dia = 2.7 f) L = 2.6, Dia = 1.6

Application Code:

○ General Purpose — ◇ Switching — ● High speed — ▲ Avalanche

V_{RRM} max V	I_F (AV) max mA	V_F max V @ I_F mA	I_F mA	Package	Mfr.	App'n Code	Mfrs. List No.
20	350	0.44	10	(a)	ST	○	BAT47 ◆
30	100	0.4	10	(a)	ST	○	BAT42 ◆
30	100	0.45	15	(a)	ST	○	BAT43 ◆
30	110	0.54	130	(e)	—	○	0A47 ■
30	200	0.4	10	(f)	PS	●	BAT85 ◆
40	30	0.41	1	(f)	PS	●	BAT81 ◆
40	350	0.4	10	(a)	ST	○	BAT48 ◆
50	75	1.0	20	(a)	PS	●	BAX13
50	200	0.75	10	(a)	FCH	○	1N4150
60	30	0.41	1	(f)	PS	●	BAT83 ◆
75	100	1.0	100	(a)	PS	●	BAW62
75	140	0.8	250	(e)	—	○	AAZ17 ■
75	150	1.0	10	(a)	PS	●	1N4148
75	150	1.0	100	(a)	PS	●	1N4448
75	200	1.0	10	(a)	FCH	●	1N4148
80	1000	0.42	100	(b)	ST	○	BAT49 ◆
100	75	1.0	10	(a)	PS	●	1N914
100	75	1.0	10	(a)	PS	●	1N916
100	100	0.45	1	(a)	ST	○	BAT41 ◆
100	140	0.8	250	(e)	—	○	AAZ15 ■
100	150	0.45	10	(a)	ST	○	BAT46 ◆
100	200	1.2	200	(d)	FCH	○	1S921
115	50	2.1	30	(e)	—	○	0A9105 ■
115	50	1.85	30	(e)	—	○	0A9505 ■
150	200	1.3	100	(a)	FCH/PS	○	BAX16
200	200	1.2	200	(d)	FCH	○	1S923
200	250	1.2	200	(a)	PS	◇	BAV20
250	250	1.2	200	(a)	PS	◇	BAV21
300	300	1.1	300	(c)	PS	▲	BAS11

■ Germanium ◆ Silicon schottky barrier

Order Multiple=5

Mfrs. List No.	Order Code	5+	25+	100+	1K+	3K+
AAZ15	367-722	0.520	0.371	0.289	0.236	0.186
AAZ17	367-734	0.520	0.371	0.289	0.236	0.186
BAS11	367-746	0.352	0.352	0.173	0.123	0.097
BAT41	367-771	0.180	0.100	0.094	0.073	0.060
BAT42	367-783	0.158	0.088	0.083	0.064	0.053
BAT43	367-795	0.148	0.084	0.082	0.064	0.053
BAT46	367-801	0.228	0.130	0.127	0.099	0.081
BAT47	367-813	0.244	0.139	0.136	0.106	0.087
BAT48	367-825	0.261	0.146	0.137	0.106	0.087
BAT49	367-837	0.518	0.289	0.272	0.210	0.173
BAT81	367-849	0.249	0.123	0.090	0.070	0.066
BAT83	367-850	0.233	0.117	0.089	0.070	0.066
BAT85	367-862	0.148	0.074	0.060	0.050	0.048

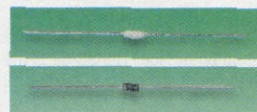
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Order Multiple=10

Mfrs. List No.	Order Code	10+	100+	250+	1K+	3K+
BAV20	367-898	0.036	0.018			
BAV21	367-904	0.036	0.018			
BAW62	367-928	0.044	0.022	0.016	0.012	
BAX13	367-930	0.059	0.054	0.046	0.045	
BAX16 (FCH)	367-941	0.059	0.035	0.021	0.015	
BAX16 (PS)	367-953	0.047	0.033	0.025	0.021	
Order Multiple=5		5+	25+	100+	1K+	10K+
0A47	368-003	0.456	0.399	0.354	0.270	0.244
0A91 05	368-027	0.238	0.190	0.150	0.143	0.135
0A95 05	368-039	0.238	0.190	0.150	0.143	0.135
Order Multiple=10		10+	100+	250+	1K+	3K+
1N914	368-076	0.036	0.018	0.013	0.010	0.010
1N916	368-088	0.036	0.018	0.017	0.013	0.010
Order Multiple=100		100+	1K+	10K+	50K+	
1N4148 (FCH)	BV 368-118	0.009	0.008	0.007	0.007	
Order Multiple=10		10+	100+	250+	1K+	3K+
1N4148 (PS)	368-106	0.028	0.014	0.014	0.011	0.008
1N4150	368-131	0.017	0.012	0.009	0.007	0.006
1N4448	368-143	0.022	0.012	0.008	0.006	0.006
1S921	368-180	0.030	0.021	0.016	0.013	0.011
1S923	368-209	0.030	0.021	0.016	0.013	0.011

† Available until stocks are exhausted

High Voltage



Package	L	Dia
SOD-61, SOD-61A	DO-41 Plastic	5.2 2.7
SOD-61	Glass	9.5 3.0
SOD-61A	Glass	4.9 3.0

V_{RRM} , kV	V_{RRM} , kV	I_F (AV) max, mA	I_{FRM} , A	Package	Mfr.	Mfrs. List No.
0.18	1.6	360	15.0	DO-41	GS	BYX10
1.5	1.6	85	0.8	SOD-61A	PS	BY584
2.0	—	250	—	SOD-57	TEM	BY203/20S
12.0	14.0	5	0.5	SOD-61	PS	BY8412
18.0	22.0	3	0.5	SOD-61	PS	BY8418

Order Multiple = 5

Mfrs. List No.	Order Code	5+	100+	1K+	3K+
BY203/20S	995-411	0.431	0.212	0.170	0.144
BY584	367-539	0.430	0.210	0.160	0.120
BYX10	367-540	0.280	0.250	0.240	0.240
BY8412	663-803	0.166	0.130	0.118	0.092
BY8418	663-815	0.196	0.156	0.150	0.145

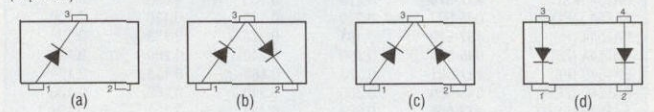
RF Diodes

SOT-23, SOT-323 and SOT-143 Schottky



Supplied on 8mm tape.

(Top view)



Min V_{RR} @ I_R 10µA	Max V_F mV	Max Power @ 25°C mW	Max C_T @ 1MHz pF	Device Marking	Package	Pin Config.	Mfr.	Mfrs. List No.
8◆	340	250	1.0	C2	SOT-23	b	HP	HSMS-2822
15	340	—	1.0	C0	SOT-323	a	HP	HSMS-282B
15	340	—	1.0	C2	SOT-323	b	HP	HSMS-282C
20	400	—	1.2	B0	SOT-323	a	HP	HSMS-281B
20	400	—	1.2	B2	SOT-323	b	HP	HSMS-281C
20	410	250	1.2	B0	SOT-23	a	HP	HSMS-2810
20	410	250	1.2	B2	SOT-23	b	HP	HSMS-2812
20	410	250	1.2	B4	SOT-23	c	HP	HSMS-2814
20	410	250	1.2	B5	SOT-143	d	HP	HSMS-2815
30	450	200	1.5	4T	SOT-23	a	MOT	MMBD301LT1
70	400	—	2.0	A0	SOT-323	a	HP	HSMS-280B
70	400	—	2.0	A2	SOT-323	b	HP	HSMS-280C
70	410	250	2.0	A0	SOT-23	a	HP	HSMS-2800
70	410	250	2.0	A2	SOT-23	b	HP	HSMS-2802
70	1000	—	1.0	5H	SOT-323	a	MOT	MMBD770T1

◆ $I_R = 100\mu A$

Order Multiple=5

Mfrs. List No.	Order Code	5+	100+	1K+	5K+
HSMS-280B	NEW 994-480	0.190	0.170	0.160	0.150
HSMS-280C	NEW 994-492	0.290	0.280	0.270	0.260
HSMS-281B	NEW 994-509	0.190	0.180	0.170	0.160
HSMS-281C	NEW 994-510	0.270	0.260	0.250	0.240
HSMS-282B	NEW 994-522	0.160	0.150	0.140	0.130
HSMS-282C	NEW 994-534	0.220	0.210	0.200	0.190
HSMS-2800	549-678	0.200	0.200	0.180	0.170

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