

Low Power Signal Diodes — continued

Small Signal

Philips Semiconductors



Application code key:
HS = High speed, AV = Avalanche

V _{RRM} max V	I _F (AV) max mA	V _F max V @ I _F mA	I _F mA	Package	App'n Code	Mftrs. List No.
30	200	0.4	10	DO-34	HS	BAT85 ◆
40	30	0.41	1	DO-34	HS	BAT81 ◆
50	30	0.41	1	DO-34	HS	BAT82 ◆
50	75	1.0	20	DO-35	HS	BAX13
60	30	0.41	1	DO-34	HS	BAT83 ◆
60	300	1.25	500	DO-35	HS	BAV10
75	100	1.0	100	DO-35	HS	BAW62
75	150	1.0	10	DO-35	HS	1N4148
75	150	1.0	100	DO-35	HS	1N4448
100	75	1.0	10	DO-35	HS	1N914
120	250	1.25	200	DO-35	HS	BAV19
200	250	1.2	200	DO-35	HS	BAV20
250	250	1.2	200	DO-35	HS	BAV21

◆ Schottky barrier

SD94

Mftrs. List No.	Order Code	Price Each			
		5+	25+	100+	1K+
BAT81	367-849				
BAT82	304-9516				
BAT83	367-850				
BAT85	367-862				
BAV10	300-0280				
BAV19	300-0308				
BAV20	367-898				
Order Multiple=10					
BAV21	367-904	10+	100+	1K+	3K+
BAW62	367-928				
BAX13	367-930				
Order Multiple=10					
1N914	368-076	10+	100+	250+	1K+
1N4148	368-106				
1N4448	368-143				

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Small Signal



V _{RRM} max V	I _F (AV) max A	V _F max V @ I _F mA	I _F mA	Appln. Code	Mftrs. List No.
25	200	1.0	100	GP	1N456A
35	150	1.0	20	SW	BAW71
50	150	1.0	100	SW	BAW76
75	150	0.9	10	SW	1N4305
75	150	1.0	100	SW	BAW62
75	200	1.0	10	SW	1N914
75	200	1.0	100	SW	1N4448
100	150	1.0	10	SW	1N4149
100	225	1.0	100	HV	BAW72
120	200	1.0	150	HV	BAW80
125	200	1.0	100	GP	1N458A
175	200	1.0	3	GP	1N459
175	200	1.0	100	GP	1N459A
200	100	1.0	100	HV	1N4938

Application Code Key: GP = General Purpose, HV = High Voltage, SW = High Freq. Switching

SD398

Mftrs. List No.	Order Code	Price Each			
		10+	100+	1K+	10K+
1N4149	885-095				
1N4305	885-058				
1N4448	885-101				
1N456A	884-959				
1N458A	885-149				
1N459	885-198				
1N459A	885-204				
1N4938	885-186				
1N914	885-060				
BAW62	885-022				
BAW76	885-034				
BAW71	884-972				
BAW72	885-125				
BAY80	885-162				

Small Signal



Coloured band indicates cathode

a) L = 4.25, Dia = 1.85 b) L = 5.2, Dia = 2.7 c) L = 3.81, Dia = 1.71 d) L = 7.6, Dia = 2.7

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	Mftr Code	App'n Code	Mftrs. 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	(d)	—	○	OA47 ■
40	350	0.4	10	(a)	ST	○	BAT48 ◆
50	200	0.75	10	(a)	FCH	●	1N4150
75	140	0.8	250	(d)	—	○	AAZ17 ■
75	200	1.0	10	(a)	FCH	●	1N4148

continued

V _{RRM} max V	I _F (AV) max mA	V _F max V @ I _F mA	I _F mA	Package	Mftr Code	App'n Code	Mftrs. List No.
80	1000	0.42	100	(b)	ST	○	BAT49 ◆
100	100	0.45	1	(a)	ST	○	BAT41 ◆
100	140	0.8	250	(d)	—	○	AAZ15 ■
100	150	0.45	10	(a)	ST	○	BAT46 ◆
100	200	1.2	200	(c)	FCH	○	1S921
115	50	2.1	30	(d)	—	○	OA9105 ■
115	50	1.85	30	(d)	—	○	OA9505 ■
150	200	1.3	100	(a)	FCH	○	BAX16
200	200	1.2	200	(c)	FCH	○	1S923
350	400	1.5	5	(b)	GS	○	BY206

■ Germanium ◆ Silicon schottky barrier

SD62

Mftrs. List No.	Order Code	Price Each			
		5+	25+	100+	1K+
AAZ15	367-722				
AAZ17	367-734				
BAT41	367-771				
BAT42	367-783				
BAT43	367-795				
BAT46	367-801				
BAT47	367-813				
BAT48	367-825				
BAT49	367-837				
Order Multiple=10					
BAX16	367-941	10+	100+	1K+	3K+
Order Multiple=5					
BY206	309-2471	5+	25+	100+	1K+
OA47	368-003				
OA91 05	368-027				
OA95 05	368-039				
Order Multiple=10					
1N4148	368-118	10+	250+	1K+	5K+
Order Multiple=10					
1N4150	368-131	10+	100+	250+	1K+
1S921	368-180				
1S923	368-209				

High Voltage Rectifier Stacks

Philips Semiconductors



SOD-61

- Glass passivated for excellent stability
- Glass packages with Al-bonded chips allow use under high operating temperature conditions

- Controlled avalanche capable of absorbing transients during flash-over at high voltage output

V _{RRM} (KV)	V _{RRM} (KV)	I _F (AV) (mA)	t _{tr} ns	PACKAGE	TYPICAL APPLICATIONS
				SOD61	General / TV
1.5	1.8	85	200*	BY584	General
10	12	5	100	BY8410	TV
12	14	5	100	BY8412	TV
14	17	—	5	BY8414	General
16	19	3	100	BY8416	TV
18	22	3	100	BY8418	TV

* = typical

SD35

Mftrs. List No.	Order Code	Price Each		
		5+	100+	1K+
BY584	367-539			
BY8410	164-161			
BY8412	663-803			
BY8414	316-2503			
BY8416	164-173			
BY8418	663-815			

High Voltage



DO-41: Plastic, L = 5.2, Dia. = 2.7
Coloured band indicates cathode

V _{RRM} max kV	V _{RRM} max kV	I _F (AV) max mA	I _{FRM} A	Package	Mftr Code	Mftrs. List No.
0.18	1.6	360	15.0	DO-41	GS	BYX10
2.0	—	250	—	SOD-57	TFK	BY203/205

SD68

Mftrs. List No.	Order Code	Price Each		
		5+	100+	1K+
BY203/205	995-411			
BYX10	367-540			

Low Power, Low Leakage Diodes

DO-34

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V _{RRM} max V	I _F max mA @ V _F V	I _F mA	Device Marking	Package	Mftrs. List No.
125	250	1	100	DO-34	BAS45A

SD92