


RF Diodes — continued

AM PIN Diodes

Philips Semiconductors



SOD81

$V_{r_{max}}$	t_{rr}	$C_d @ V_r = 2V$	$r_d @ I_f = 10\mu A$	$r_d @ I_f = 10mA$	$r_s @ V_r = 2V \& 100kHz \text{ min. } \Omega$	Mfrs. List No.
max. V	typ. (μs)	typ. (pF)	max. Ω	max. Ω		
100	20	6	6000	10	5000	BAQ800

SD443

Order Multiple=5		Price Each			
Mfrs. List No.	Order Code	5+	100+	500+	1K+
BAQ800	163-211				

PIN

Agilent Technologies
Innovating the HP Way



$L = 4.32$,
 $\text{Dia} = 1.93$

For low power RF switching and attenuating applications. Low distortion, large dynamic range, low series resistance, low capacitance. Max power dissipation 250mW @ 25°C.

General Purpose Diodes

Min V_{BR} @ $I_{R10\mu A}$	Max C_T @ 1MHz	V_R @ V	Max R_S @ 100MHz	I_F @ mA	t_{rr} (typ) ns	Mfrs. List No.
35	1.0	20	0.6	10	12	5082-3188
200	0.3	50	1.5	100	100	5082-3077

RF Current Controlled Resistor Diodes

Min V_{BR} @ $I_{R10\mu A}$	Max C_T @ 1MHz	V_R @ V	Max R_S @ 100MHz, $I_F 100mA$	Min R_H @ 100MHz	Max R_C @ 100MHz	Mfrs. List No.
100	0.4	50	2.5	1000	8	5082-3080
100	0.4	50	3.5	1500	8	5082-3081

SD72

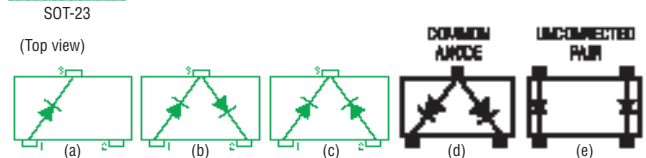
Mfrs. List No.	Order Code	Price Each			
General Purpose Diodes		1+	25+	100+	250+
5082-3077	367-643				
5082-3188	367-667				
RF Current Controlled Resistor Diodes					
5082-3080	367-679				
5082-3081	367-680				

SOT-23 PIN and SOT-143 PIN



- $I_F = 1A$ (pulsed), $P_{tot} = 250mW$
- Characterised for different applications
- Flexible packing options
- High reliability
- Supplied on 8mm tape

SMD



General Purpose Diodes

Min V_{BR} @ $I_{R10\mu A}$	Max C_T @ 1MHz	V_R @ V	Max R_S @ 100MHz	I_F @ mA	t_{rr} (Typ) ns	Pin Config	Device Marking	Mfrs. List No.
50	0.2	50	1.5	100	—	b	L2 AGI	HSMP-3862
200	0.3	50	1.5	100	80	a	K0 AGI	HSMP-3830
200	1.0	20	1.0	10	300	a	4R ON	MMBV3700LT1

Low Distortion Attenuator Diodes

Min V_{BR} @ $I_{R10\mu A}$	Max C_T @ 1MHz	Max R_S @ 100MHz, $I_F 100mA$	Min R_H @ 100MHz	Max R_H @ 100MHz	Pin Config	Device Marking	Mfrs. List No.
100	0.35	2.5	1000	8	a	D0	AGI HSMP-3800
100	0.35	2.5	1000	8	c	D4	AGI HSMP-3804
100	0.35	4.0	1500	10	c	E4	AGI HSMP-3814

Low Current, Fast Switching Diodes

Min V_{BR} @ $I_{R10\mu A}$	Max C_T @ 1MHz	V_R @ V	Max R_S @ 100MHz	I_F @ mA	Pin Config	Device Marking	Mfrs. List No.
35	1.0	20	0.6	10	a	F0	AGI HSMP-3820
35	1.0	20	0.6	10	b	F2	AGI HSMP-3822
35	1.0	20	0.6	10	c	F4	AGI HSMP-3824
35	0.3	5	2.5	5	a	G0	AGI HSMP-3890
35	0.3	5	2.5	5	b	G2	AGI HSMP-3892
100	0.3	5	2.5	5	e	G5	AGI HSMP-3895

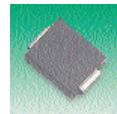
SD227

Mfrs. List No.	Order Code	Price Each				
		1+	25+	100+	250+	1K+
HSMP-3800	549-794					
HSMP-3804	549-903					
HSMP-3814	549-915					
HSMP-3820	549-812					
HSMP-3822	549-873					
HSMP-3824	572-548					
HSMP-3830	549-824					
HSMP-3862	994-431					
HSMP-3890	549-848					
HSMP-3892	549-897 †					
MMBV3700LT1	NEW 352-6460					

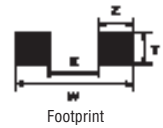
† Available until stocks are exhausted

Power Diodes – Standard Recovery

DO-214



	H	L	D	W	X	Y	Z
DO-214BA	3.00	5.74	2.90	5.9	2.3	1.7	1.8
DO-214AC	2.44	5.28	2.79	5.9	2.3	1.7	1.8
DO-214AA	2.43	5.45	3.58	6.9	3.3	2.2	1.8
DO-214AB	2.62	8.13	6.22	8.13	5.08	3.2	1.52



High reliability glass passivated rectifiers. GF1 and S1 series equivalent to the 1N4000 series. Supplied on 12mm tape in any quantity.

I_{AV} A	I_{FSM} A	V_F V	I_F @ 25°C A	Package	Mfrs.	Type/ Series
1.0	30	1.2	1.0	DO-214	TOSH	U1...
1.0	30	1.1	1.0	DO-214AC	ON	MRA...
1.0	30	1.1	5.0	DO-214BA	GS	GF1...
1.0	30	1.0	1.0	DO-214AC	FCH/GS	S1...
1.5	30	1.1	1.5	DO-214AC	TFK	BYG10M
2.0	50	1.15	5.0	DO-214AA	FCH	S2M
3.0	100	1.15	1.0	DO-214AB	FCH	S3...

SD185

Order Multiple=10		Price Each					
V_{RRM} max. V	Mfrs. List No.	Order Code	10+	100+	200+	500+	1K+
1000	BYG10M	995-162					
50	GF1A	.251-460					
100	GF1B	.251-471					
200	GF1D	.251-483					
400	GF1G	.251-495					
600	GF1J	.251-501					
800	GF1K	.251-513					
1000	GF1M	.251-525					
200	MRA4003T3	162-7697					
400	MRA4004T3	165-8244					
600	MRA4005T3	165-8256					
800	MRA4006T3	165-8268					
1000	MRA4007T3	165-8270					
50	S1A (FCH)	165-669					
50	S1A (GS)	547-499					
100	S1B	547-505					
200	S1D (GS)	547-517					
400	S1G (FCH)	165-694					
400	S1G (GS)	547-529					
600	S1J (FCH)	165-700					
600	S1J (GS)	547-530					
1000	S1M	165-724					
1000	S2M	646-982					
Order Multiple=5		Price Each					
Device Code		5+	100+	250+	1K+	3K+	
50	S3A	—	165-736				
200	S3D	—	165-750				
600	S3J	—	165-773 †				
1000	S3M	—	165-797				
100	U1BC44	BC	327-2436				
400	U1GC44	GC	327-2448				
600	U1JC44	JC	327-2450				

† Available until stocks are exhausted

Controlled Avalanche

Philips Semiconductors



- High reliability glass passivation process
- Low leakage current
- Good stability
- Guaranteed avalanche energy absorption capability
- Supplied on 8mm tape

$I_{F(AV)}$ A	I_r mA	V_F V	I_F @ A	Series
1.4	0.001	1.05	1	BYD17
1.5	0.001	1.1	1	BYD37

SD490

Order Multiple=5		Price Each					
V_{RRM} max. V	Mfrs. List No.	Device Code	Order Code	5+	100+	1K+	3K+
200	BYD17D	17DPH	300-0965				
400	BYD17G	17GPH	316-2692				
600	BYD17J	17JPH	316-2709				
800	BYD17K	17KPH	316-2710				

continued