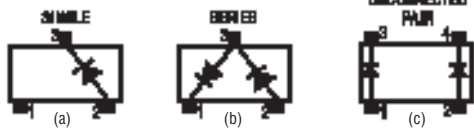


(Top view)



Min V_{BR} @ I_R 10 μ A	Max V_F mV	Max Power @ 25°C mW	Max C_T @ 1MHz pF	Device Marking	Package	Pin Config.	Mftrs. List No.
4	350	75	0.26	R1	SOT-23	a	HSMS-8101
4	350	75	0.26	2R	SOT-23	b	HSMS-8202
4	350	75	0.26	R5	SOT-143	c	HSMS-8205

Mftrs. List No.	Order Code	1+	100+	1K+	2500+
HSMS-8101	994-649				
HSMS-8202	994-650				
HSMS-8205	994-662 †				

† Available until stocks are exhausted

Schottky Barrier



(a) L = 4.32, D = 1.93 (b) L = 4.06, D = 1.85

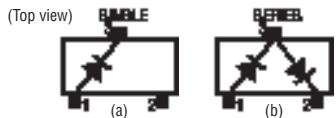
High performance devices for UHF/VHF applications, detecting, mixing, switching etc. Low turn-off voltage, as low as 0.34V @ 1mA. Pico-second switching speed. High breakdown voltage, up to 70V.

Min V_{BR} @ I_R 10 μ A	Max V_F mV	Max Power @ 25°C mW	Max C_T @ 1MHz pF	Mftr.	Package	Mftrs. List No.
8 ◇	340	150	1.0	AGI	(a)	5082-2835
15	410	250	1.2	AGI	(a)	5082-2811
20	410	250	1.2	AGI	(a)	5082-2810
20	550	250	1.2	—	(a)	1N5712
60	410	400	2.2	ST	(b)	1N6263
70	410	250	2.0	AGI	(a)	5082-2800
70	410	250	2.0	ST	(a)	1N5711

◇ $I_R=100\mu$ A

Mftrs. List No.	Order Code	5+	25+	100+	1K+	3K+
1N5711	367-552					
Order Multiple=1		1+	25+	100+	250+	1K+
1N5712	367-564					
Order Multiple=5		5+	25+	100+	1K+	3K+
1N6263	367-576					
Order Multiple=1		1+	25+	100+	250+	1K+
5082-2800	367-590					
5082-2810	367-618					
5082-2811	367-620					
5082-2835	367-631					

SOT-23 Microwave Schottky Detector Diode



Agilent Technologies
Innovating the HP Way



- HSMS-285x zero biased, HSMS286x DC biased
- Optimised for use from 915MHz to 5.8GHz
- Ideal for RF/ID and RF/Tag applications requiring a small and large signal detection, modulation, RF to DC conversion or voltage doubling
- High reliability, flexible package options

Max. V_F mV @ 1mA	Max. Power @ 25°C mW	Typ C_T @ 1MHz pF	Typical Video Resistance RV (K Ω)	Device Marking	Package	Pin Config.	Mftrs. List No.
250	75	0.30	8.0	P0	SOT-23	a	HSMS-2850
250	75	0.30	8.0	P2	SOT-23	b	HSMS-2852

Mftrs. List No.	Order Code	1+	100+	1K+	2500+
HSMS-2850	994-546				
HSMS-2852	994-560				

RF Diodes

Band-Switching Diodes

Philips Semiconductors



- High performance SOT-23 Package
- Used in TV VHF tuners



V_R max. V	I_F max. mA	V_F max. V	I_R @ $V_R=20V$ nA	C_d @ $V_R=3V$ pF	r_D max. Ω
35	100	1.2	100	1	0.7

Mftrs. List No.	Order Code	5+	100+	250+	1K+	3K+
BAT18	316-3040					

Band-Switching Diodes

Philips Semiconductors



DO-34
L = 3.04, Dia = 1.6

- High performance hermetically sealed glass package
- Used in TV VHF tuners

V_R max. V	I_F max. mA	V_F max. V	I_R @ $V_R=20V$ nA	C_d @ $V_R=3V$ pF	r_D max. Ω
35	100	1.2	100	1.2	0.7

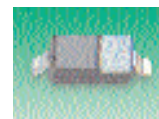
Mftrs. List No.	Order Code	5+	100+	250+	1K+	3K+
BA482	300-0187 †					

† Available until stocks are exhausted

Variable Capacitance



SOT-23
H = 1.1, W = 3.0, D = 2.5



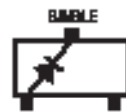
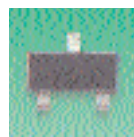
SOD-323

V_R max. V	I_R max. @ $V_R=28V$ nA	C_d typ (*min) @ $V_R=1V$ pF	C_d max @ $V_R=28V$ pF	C_d ratio min.	r_s max.	Device Package	Device Marking	Mftr.	Mftrs. List No.
30	10	18.22*	2.225	8.45	0.75	SOD-323	PL	PS	BB149A
30	10	16.5	2	8	1.2	SOT-23	S12	PS	BBY39
30	10	16.5	2	8.3	1.2	SOT-23	S1	PS	BBY31
30	10	26*	6	5	0.7	SOT-23	S2	PS	BBY40

V_R max. V	I_R max. @ $V_R=25V$ nA	C_d typ (*min) @ $V_R=4V$ pF	C_d max @ $V_R=4V$ pF	Tuning Ratio min.	Q@VR = 4V typ.	Device Package	Device Marking	Mftr.	Mftrs. List No.
30	100	33	36.6	2.5	200	SOT-23	4J	ON	MMBV2109LT1

Mftrs. List No.	Order Code	5+	100+	1K+	3K+
BB149A	316-2837				
BBY31	NEW 300-0310				
BBY39	316-3076				
BBY40	316-3088				
MMBV2109LT1	NEW 352-6458				

SOT323 PIN



H = 1.0, W = 2.2, D = 2.2 (Top View)

Agilent Technologies
Innovating the HP Way



- If 1A (pulsed)
- High reliability
- Characterised for different applications

Low Current, Fast Switching Diodes

Min V_{BR} @ $I_R \leq 10\mu$ A	Max C_T @ 1MHz pF	@ V_R V	Max R_s @ 100MHz Ω	I_F mA	Device Marking	Mftrs. List No.
100	0.30	5	2.5	5	G0	HSMP-389B

Mftrs. List No.	Order Code	5+	100+	250+	1K+
HSMP-389B	994-418				

Continued