



RF Products, Analog and Mixed Signal

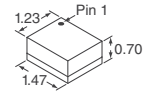
Dimensions in mm

RF Diodes (Cont.)



Fig.	VR IR=10µA (V)	Nominal I-Region Thickness (µm)	CT OV F=1MHz Typ. (pF)	CT OV F=1GHz Typ. (pF)	RSIF = 10mA F= 100 MHz Typ. (Ω)	Carrier Lifetime TL IF = 10mA Typ. (ns)	Package	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing 3,000	Skyworks Part No.	
								1	100	500				
Plastic SMT Limiter Diodes — Low Frequency to 6GHz														
1	20 - 50	3	0.7	0.7	1.25	4.0	SOT-23	863-1101-1-ND	.72	.60	.54	863-1101-2-ND	432.44/M	SMP1330-005LF
9	20 - 50	3	0.7	0.7	1.25	4.0	0402	863-1166-1-ND	1.51	1.32	1.15	863-1166-2-ND	248.25/M	SMP1330-040LF
High Power Limiter Diode														
10	250 min.	28	—	—	1.5 max.	1.1µs	2-QFN	863-1182-1-ND	1.30	.98	.89	863-1182-2-ND	1034.65/M	CLA4609-086LF

Fig. 5



VB @ 10µA (V)	Nominal I-Region Thickness (µm)	Typical CJ @ 0V (pF)	Maximum CJ @ 6V (pF)	Maximum RS @ 10mA (Ω)	Maximum TL @ 10mA (ns)	Thermal Impedence		Digi-Key Part No.	Price Each			Skyworks Part No.
						Max. Average (C/W)	Typ. 1µs Pulse (C/W)		100	500	1,000	
Limiter Diode Chips — Low Frequency to 20GHz												
15 - 30	1.0	0.12	0.10	2.5	5	120	15	863-1031-ND	4.01	2.77	2.51	CLA4601-000
15 - 30	1.0	0.20	0.15	2.0	5	80	10	863-1032-ND	4.01	2.77	2.51	CLA4602-000
20 - 45	1.5	0.20	0.15	2.0	5	100	10	863-1033-ND	4.01	2.77	2.51	CLA4603-000
30 - 60	2.0	0.12	0.10	2.5	7	100	10	863-1034-ND	4.01	2.77	2.51	CLA4604-000
30 - 60	2.0	0.20	0.15	2.0	7	70	7.0	863-1035-ND	4.01	2.77	2.01	CLA4605-000
45 - 75	2.5	0.20	0.15	2.0	10	80	7.0	863-1037-ND	4.01	2.77	2.01	CLA4606-000
120 - 180	7.0	0.20	0.15 @ 50V	2.0	50	40	1.2	863-1038-ND	4.01	2.77	2.01	CLA4607-000
120 - 180	7.0	0.80	0.5 @ 50V	1.2	100	15	0.3	863-1040-ND	4.01	2.77	2.01	CLA4608-000
250 min.	28	0.26	0.14	1.5	1175	15	0.3	863-1162-ND	2.21	2.08	1.89	CLA4609-000

Fig. 6

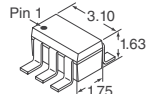


Fig.	Min. VR IR=10µA (V)	Typ. IR VR=1V (nA)	Max. VF IF=1mA (mV)	Max. VF @ Spec. IF (mV)	Max. CT VR=0V (pF)	Typ. RT IF=10mA (Ω)	Package	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel		Skyworks Part No.	
									1	100	500	Qty.	Pricing		
Schottky Diodes															
1	8	100†	340	450 @ 10mA	1.03	7	SOT-23	863-1107-1-ND	.72	.60	.54	863-1107-2-ND	3,000	432.44/M	SMS3922-004LF
8	8	100†	340	450 @ 10mA	1.03	7	SOT-143	863-1108-1-ND	.77	.64	.60	863-1108-2-ND	3,000	472.48/M	SMS3922-015LF
3	8	100†	340	450 @ 10mA	1.03	7	SC-79	863-1109-1-ND	.69	.56	.51	863-1109-2-ND	3,000	408.41/M	SMS3922-079LF
4	20	500‡	370	1000 @ 35mA	1.23	11	SOD-323	863-1110-1-ND	.48	.33	.32	863-1110-2-ND	3,000	272.28/M	SMS3923-011LF
8	20	500‡	370	1000 @ 35mA	1.23	11	SOT-143	863-1111-1-ND	.77	.64	.60	863-1111-2-ND	3,000	472.48/M	SMS3923-015LF
7	20	500‡	370	1000 @ 35mA	1.23	11	SC-88	863-1112-1-ND	1.47	.78	.73	863-1112-2-ND	3,000	624.63/M	SMS3923-081LF
3	70	200§	550	1000 @ 15mA	1.83	7	SC-79	863-1113-1-ND	.48	.33	.32	863-1113-2-ND	3,000	272.28/M	SMS3924-079LF
8	2	300	270	—	0.5	8†	SOT-143	863-1114-1-ND	.93	.78	.71	863-1114-2-ND	3,000	560.56/M	SMS3926-023LF
8	2	50	370	—	0.5	8†	SOT-143	863-1115-1-ND	.93	.78	.71	863-1115-2-ND	3,000	560.56/M	SMS3927-023LF
8	2	50	370	—	0.5	8†	SOT-143	863-1117-1-ND	.93	.78	.71	863-1117-2-ND	3,000	560.56/M	SMS3930-021LF
1	2	80	320	—	0.28	18†	SOT-23	863-1118-1-ND	.48	.33	.32	863-1118-2-ND	3,000	272.28/M	SMS7621-005LF
1	2	80	320	—	0.28	18†	SOT-23	863-1119-1-ND	.48	.33	.32	863-1119-2-ND	3,000	272.28/M	SMS7621-006LF
9	2	80	320	—	0.25	18†	0402	863-1170-1-ND	1.51	1.32	1.15	863-1170-2-ND	3,000	248.25/M	SMS7621-040LF
11	2	80	320	—	0.25	18†	0201	863-1171-1-ND	2.91	2.65	2.41	863-1171-2-ND	5,000	640.65/M	SMS7621-060
3	2	80	320	—	0.28	18†	SC-79	863-1120-1-ND	.48	.33	.32	863-1120-2-ND	3,000	272.28/M	SMS7621-079LF
7	2	80	320	—	0.28	18†	SC-88	863-1121-1-ND	1.40	—	1.21	863-1121-2-ND	3,000	855.86/M	SMS7621-081LF
5	2	80	320	—	0.28	18†	4-LGA	863-1123-1-ND	.78	.65	.61	863-1123-2-ND	3,000	488.49/M	SMS7621-517
1	1 @ 100	—	240	—	0.35	22	SOT-23	863-1124-1-ND	.48	.33	.32	863-1124-2-ND	3,000	272.28/M	SMS7630-006LF
9	1	—	240	—	0.35	22	0402	863-1172-1-ND	.43	.38	.33	863-1172-2-ND	3,000	248.25/M	SMS7630-040LF
11	1	—	240	—	0.35	22	0201	863-1173-1-ND	.50	.38	.35	863-1173-2-ND	5,000	640.65/M	SMS7630-061
3	1 @ 100	—	240	—	0.35	22	SC-79	863-1125-1-ND	.48	.33	.32	863-1125-2-ND	3,000	272.28/M	SMS7630-079LF

Fig. 7

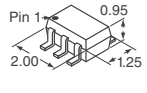


Fig. 8

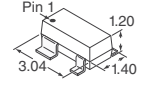
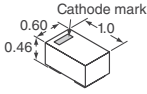


Fig. 9



† Maximum ‡ VR=15V Maximum § VR=50V Maximum

Fig.	VR IR=10µA (V) Min.	CT VR=1V (pF) Typ.	CT VR=4V (pF) Typ.	CT VR=8V (pF) Typ.	Total Cap. Ratio Min.	Capacitance Ratio Range (V)	RS Series Resistance (Ω) Max.	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing 3,000	Skyworks Part No.
										1	100	500			
High Capacitance — Hyperabrupt Varactor Diodes															
4	15	11.67	4.99	2.91	1.6	1:3	0.6	SOD-323	863-1133-1-ND	.62	.50	.46	863-1133-2-ND	368.37/M	SMV1235-011LF
4	15	17.02	7.19	4.49	1.6	1:3	0.5	SOD-323	863-1134-1-ND	.62	.50	.46	863-1134-2-ND	368.37/M	SMV1236-011LF
3	15	17.02	7.19	4.49	1.6	1:3	0.5	SC-79	863-1135-1-ND	.48	.33	.32	863-1135-2-ND	256.26/M	SMV1236-079LF
3	20	17.81	5	—	2.3	0.5:2.5	0.7	SC-79	863-1140-1-ND	.62	.50	.46	863-1140-2-ND	368.37/M	SMV1270-079LF
1	12	18.1	3.5	1.9	5	1:4	1.4	SOT-23	863-1127-1-ND	.48	.33	.32	863-1127-2-ND	256.26/M	SMV1213-001LF
1	12	18.1	3.5	1.9	5	1:4	1.4	SOT-23	863-1128-1-ND	.64	.52	.48	863-1128-2-ND	384.39/M	SMV1213-004LF
3	15	18.18	2.72	2.03	11	0.3:4.7	2.2	SC-79	863-1137-1-ND	.48	.33	.32	863-1137-2-ND	256.26/M	SMV1249-079LF
3	15	43.27	5.58	4.26	11	0.3:4.7	1.3	SC-79	863-1138-1-ND	.48	.33	.32	863-1138-2-ND	256.26/M	SMV1255-079LF
4	28	8.7	2.95	1.188	11.3	1:26	2.0	SOD-323	863-1141-1-ND	.62	.50	.46	863-1141-2-ND	368.37/M	SMV1283-011LF
Low Capacitance — Hyperabrupt Varactor Diodes															
3	15	2.67	1.22	0.81	1.5	1:3	1.5	SC-79	863-1129-1-ND	.62	.50	.46	863-1129-2-ND	368.37/M	SMV1232-079LF
4	15	3.28	1.45	0.96	1.5	1:3	1.2	SOD-323	863-1130-1-ND	.48	.33	.32	863-1130-2-ND	256.26/M	SMV1233-011LF
3	15	4.37	0.77	0.64	9.5	0.3:4.7	6.0	SC-79	863-1136-1-ND	.48	.33	.32	863-1136-2-ND	256.26/M	SMV1247-079LF
3	20	5.11	1.54	—	2.3	0.5:2.5	1.2	SC-79	863-1139-1-ND	.48	.33	.32	863-1139-2-ND	256.26/M	SMV1263-079LF
3	10	5.2	1.9	—	2.3	0.5:2.5	0.7	SC-79	863-1144-1-ND	.48	.33	.32	863-1144-2-ND	256.26/M	SMV1763-079LF
4	15	6.28	2.81	1.65	1.6	1:3	0.8	SOD-323	863-1131-1-ND	.48	.33	.32	863-1131-2-ND	256.26/M	SMV1234-011LF
3	15	6.28	2.81	1.65	1.6	1:3	0.8	SC-79	863-1132-1-ND	.62	.50	.46	863-1132-2-ND	368.37/M	SMV1234-079LF
Low Capacitance — Abrupt Varactor Diodes															
3	30	1.84	1.25	0.63†	4.1	0:30	0.8	SC-79	863-1142-1-ND	.62	.50	.46	863-1142-2-ND	368.37/M	SMV1405-079LF
3	30	6.37	4.1	1.77†	4.2	0:30	0.35	SC-79	863-1143-1-ND	.62	.50	.46	863-1143-2-ND	368.37/M	SMV1413-079LF

Fig. 10

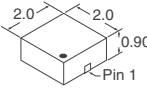
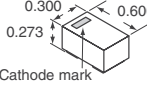


Fig. 11



† VR=30V

(Continued)

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