

Miniature 0402 Surface Mount Technology Packaged RF Diodes

PIN Diodes for Switch and Attenuator Applications

Feature	Characteristic	Part Number
High isolation switching	Very low capacitance (0.13 pF), isolation 40 dB	SMP1345-040LF
Fast switching, high isolation	Low capacitance, fast switching	SMP1340-040LF
High isolation	Low capacitance	SMP1321-040LF
Moderate power switching	Low capacitance, low resistance	SMP1320-040LF
High power switching	Low distortion	SMP1352-040LF
High isolation switching	Low resistance (0.5 Ω typical)	SMP1322-040LF

Limiter Diode for Receiver Protection Applications

Feature	Characteristic	Part Number
Low capacitance, low threshold level	Fast recovery time (5 ns typical)	SMP1330-040LF

Schottky Diodes for Detector and Mixer Applications

Feature	Characteristic	Part Number
High sensitivity detector	Low barrier height, low capacitance	SMS7621-040LF
Most sensitive detector	Lowest barrier height, low capacitance	SMS7630-040LF
Higher input power	Medium barrier height	SMS3922-040LF
Higher input power	Medium barrier height	SMS3923-040LF
Handle large signal voltage	Medium barrier height	SMS3924-040LF
Handle large signal voltage	Medium barrier height	SMS3925-040LF

Varactor Diodes for VCO, Voltage Tuned Filters and Phase Shifter Applications

Feature	Characteristic	Part Number
Low capacitance, high Q	Capacitance (7 pF @ 0.3 V, 0.7 pF @ 4.7 V), Q (1500)	SMV1247-040LF
Low capacitance, low R_s	Capacitance (6.7 pF @ 0.5 V, 2.6 pF @ 1.5 V), R_s (0.7 Ω)	SMV1763-040LF
High capacitance and tuning range	Capacitance (31 pF @ 0.3 V, 2.6 @ 4.7 V), CTR (12:1)	SMV1249-040LF
High capacitance ratio at low voltage	Capacitance (2.5 pF @ 1.0 V, 1.5 pF @ 3.0 V), CTR (1.7)	SMV1232-040LF
Low R_s	Capacitance (18.5 pF @ 1.0 V, 6.1 pF @ 4.0 V), R_s (0.3 Ω)	SMV1705-040LF
Low capacitance	Capacitance (0.75 pF @ 4.0 V, 0.23 pF @ 20.0 V)	SMV2019-040LF
Abrupt junction, low R_s	Capacitance (1.3 pF @ 0 V, 0.6 pF @ 4.0 V), R_s (2.7 Ω)	SMV1430-040LF

*For more information on our broad product portfolio,
please visit our Web site at www.skyworksinc.com*