



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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RF Schottky Diodes for High Frequency Detector, Mixer or Power Leveling



General description

- Excellent RF Schottky Diodes available as single, double, triple and quad
- Various diode configurations (e. g. common anode, common cathode)
- All products have additional guard-ring diode integrated on chip for overvoltage protection
- RoHS compliant package portfolio including industry standard sizes (e. g. SOT3x3) and super thin-small-leadless-packages (e. g. world smallest diode package TSSLP2, 0.6*0.3*0.3mm³)
- Automotive (AECQ101) qualified

Target applications

Detector, mixer and power leveling for:
Wireless LAN detector, cellular phone, 24GHz radar system, video detector, ...



RF Mixer Diodes Performance Table & Product Highlights:

BAT24-02LS: Premium parasitic inductance combined with small capacitance values, best fit for high frequency up to 24GHz
BAT15x: Best-in-class RF mixer/detector diodes in various packages and configurations

Family	V _R max [V]	I _F max [mA]	C _T at 0V [pF]	V _F [V] at 1mA	Package	Configuration ¹⁾
BAT15	4	110	0.26	230	TSLP2/SOD323/SOT323/TSLP4/SOT143	S/D/Q
BAT17	4	130	0.55	340	SOT23/SOT323/SOT143	S/D
BAT24	4	110	0.21	230	TSSLP2	S

RF Signal Detection and Power Leveling Diodes Performance Table & Product Highlights:

BAT62-02LS : Super tiny RF Schottky detector diode in leadless package (0.6*0.3*0.3mm³ only)
BAT63-02V: very low forward voltage combined with tiny package (1.6*0.8*0.55mm³ only)

Family	V _R max [V]	I _F max [mA]	C _T at 0V [pF]	V _F [V]	I _F [mA]	R _o [kΩ] @ V=0V	Package	Configuration ¹⁾
BAT62	40	20	0.35	580	2	225	SOT143/SOD323/SOT343 TSLP2/TSSLP2/SCD80/TSLP4	S/D
BAT63	3	100	0.65	190	1	30	SC79/SOT343	S/D
BAT68	8	130	0.75	318	1		SOT23/SOT323/SOT343/SOT363	S/D

1) Configuration: S=Single, D=Dual, T=Triple, Q=Quad

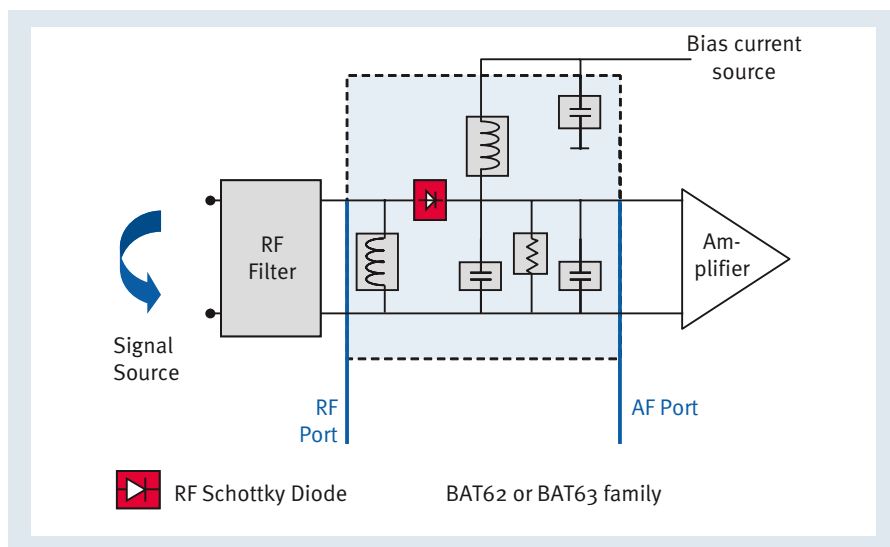
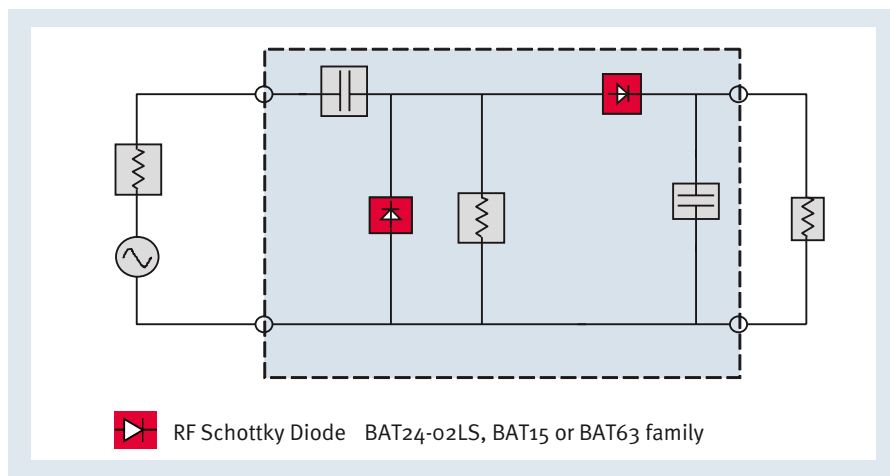
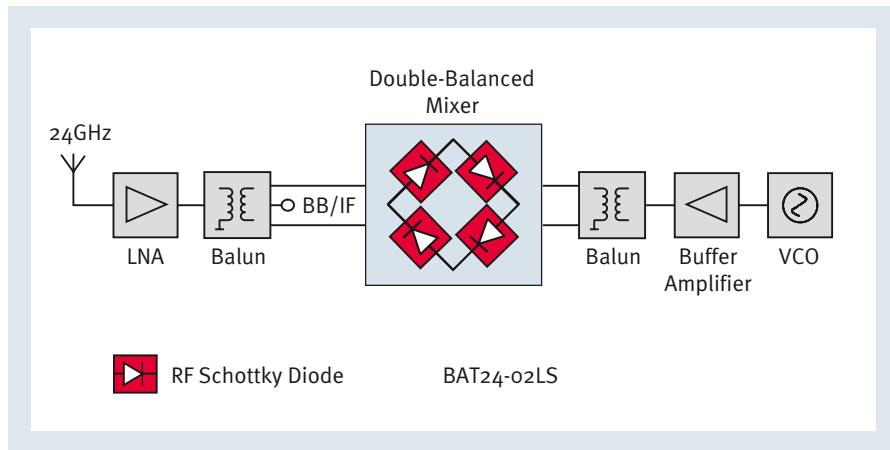
www.infineon.com/schottkydiodes

Small Signal Discretes



Never stop thinking

Application Examples



BAT24-02LS for 24GHz Radar Mixer Cell

Virtual battery using BAT15, BAT24 or BAT63 family

High Frequency RF Detection using BAT62 or BAT63 family

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