



RF PIN diodes in leadless SOD882T

Boost RF performance and reduce system size

Deliver the maximum performance and functionality in the smallest space with our new RF PIN diodes in SOT882T. These unique products enhance the RF performance of your system while reducing its form factor and cutting your time to market.

Key features

- ▶ Low series inductance
- ▶ Low capacitance
- ▶ Leadless, package with very small footprint (1.0 mm x 0.6 mm)
- ▶ Low profile (0.4 mm)
- ▶ Low insertion loss

Key benefits

- ▶ Unrivalled performance
- ▶ Faster time to market
- ▶ Smaller end products
- ▶ Easier assembly

Key applications

- ▶ Cellular and cordless phones
- ▶ Low noise blocks
- ▶ Multi-switch boxes
- ▶ Set-top boxes
- ▶ CATV infrastructure
- ▶ Base stations
- ▶ eMetering
- Bluetooth and wireless LAN
- Car Radio

Our RF PIN diodes are ideal for a wide range of mobile communications and RF applications. Their low loss and low distortion levels improve battery life and quality in mobile phones and cordless phones. Moreover, their extremely low forward resistance, diode capacitance and series inductance simplify design-in.

We offer an extensive portfolio of RF PIN diodes. So you're sure to find the right solution for your needs. The latest additions to this portfolio are housed in the ultra-small,



leadless SOD882T package, making them particularly suitable for wireless devices.

As part of our ultra-thin leadless package (UTLP) platform, the SOD882T package uses a patent-pending etch process that produces extremely high silicon to footprint ratio and a profile as low as 0.4 mm. In addition, the package has no leads and so delivers very low parasitics for maximum RF performance. This unique combination of properties results in devices that maximize the performance and functionality of your system while reducing its size and weight. They also simplify board assembly to help cut your time to market.

Product overview

Type	Limits		Typ. RD (Ω) @			Typ. Cd (pF) @		
	V_r (V)	I_f (mA)	0.5 mA	1 mA	10 mA	0 V	1 V	20 V
BAP50LX	50	50	25	14	3	0.45	0.35	0.3 (@ 5 V)
BAP51LX	60	60	5.5	3.6	1.5	0.4	0.3	0.2 (@ 5 V)
BAP55LX	50	100	3.4	2.3	1	0.27	0.23	0.18 (@ 5 V)
BAP63LX	50	100	2.5	1.95	1.17	0.4	0.35	0.3
BAP64LX	100	100	20	10	2	0.52	0.37	0.23
BAP65LX	30	100		1	0.56	0.65	0.6	0.375
BAP1321LX	60	100	3.4	2.4	1.2	0.4	0.35	0.25
BAP142LX	50	100	3.3	2.4	1	0.26	0.23	0.15

Functions of pin diodes

	Telecom		Consumer and automotive					Industrial			Connectivity	
	Cellular	Cordless	Low-noise block	Multi switch box	Walkie-talkie	Set top box	Car radio	CATV	Base station	eMetering	Bluetooth	WLAN
Switching	•	•	•	•	•				•	•	•	
Attenuating						•	•	•				•