

# L5206F

EK0506-0006 Ver.A



# **PIN Diode**

#### **■ FEATURES**

- · Low series resistance
- Low insertion loss
- Low capacitance
- · High isolation
- · RoHS compliant
- · Lead free/ Halogen free



#### Size: 1.7mm x 0.9mm x 0.5mm

#### **■ MECHANICAL DATA**

 Case: SOD-523F (0603C) standard package molded plastic.

 Terminals : MatteTin plated, solderable per MIL-STD-750, method 2026.

• Polarity: Indicated by cathode band.

#### **■ DESCRIPTION**

• The L5206F is designed for WLAN, WiMAX, measuring instruments and other RF switching applications.

### **■ABSOLUTE MAXIMUM RATINGS** (Ta=25°C)

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SYMBOL	PARAMETER RATING				
<b>V</b> R	Reverse Voltage	180	V		
<b>P</b> D [1]	Power Dissipation	300	mW		
Tj	Junction Temperature	150	°C		
Tstg	Storage Temperature Range	-55 to 150	°C		

<sup>[1]</sup> Mounting on glass epoxy PCB (50mm x 50mm x 1.6mm)

#### **■ELECTRICAL CHARACTERISTICS** (Ta=25°C)

SYMBOL	PARAMETER	CONDITIONS	LIMITS			UNITS
		CONDITIONS	MIN	TYP	MAX	ONITS
IR	Reverse Current	<b>V</b> R = 180V	1	ı	10	μА
VF	Forward Voltage	IF = 50mA	1	ı	1.0	V
Rfs	Forward Series Resistance	<b>IF</b> = 50mA, f = 100MHz	1	1.0	1.5	Ω
Ст	Diode Capacitance	<b>V</b> R =40V, f = 100MHz	1	0.15	0.22	pF
Rp	Parallel Resistance	<b>V</b> R =0V, f = 100MHz	5.0	10.0	1	kΩ
<b>I</b> L [2]	Insertion Loss	<b>IF</b> = 30mA, f = 3GHz		-0.18		dB
ISO [2]	Isolation	<b>V</b> R =-20V, f = 3GHz	-	-10	-	dB

<sup>[2]</sup> Series configuration. Zo=50 $\Omega$  . Losses of test fixtures are excluded from the measuring data.

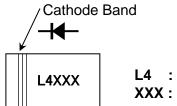
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L5206F

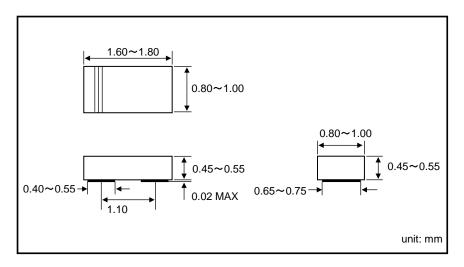
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#### ■ MARKING INFORMATION

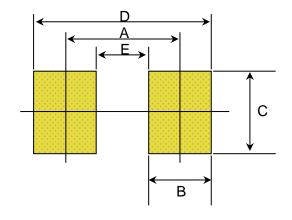


L4 : Part number L5206F XXX : Lot code (3~4digits)

#### **■PACKAGE OUTLINE INFORMATION**



## **■**SUGGESTED PAD LAYOUT

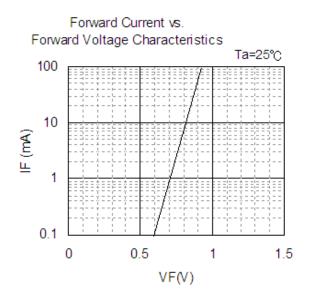


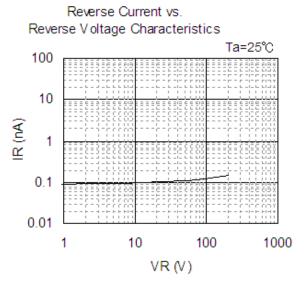
Size	SOD-523F (0603C)		
А	1.1		
В	0.6		
С	8.0		
D	1.7		
Е	0.5		
unit	mm		

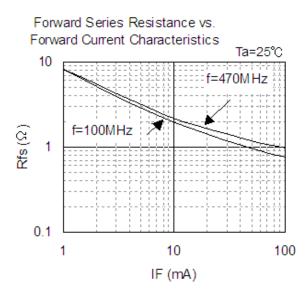


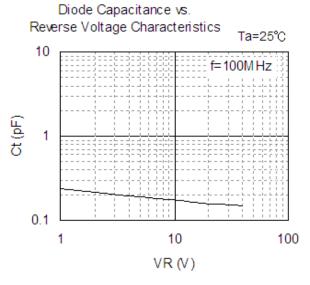
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#### **■**TYPICAL PERFORMANCE CHARACTERISTICS 1







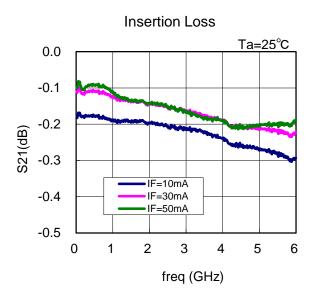


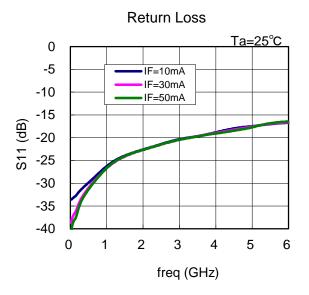


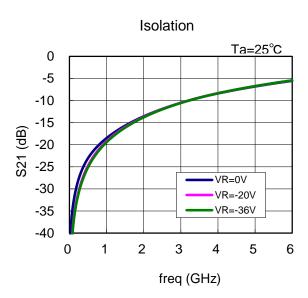
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#### **■**TYPICAL PERFORMANCE CHARACTERISTICS 2







\*) Series configuration. Zo= $50\Omega$  . Losses of test fixtures are excluded from the measuring data.



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