





## FEATURES

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

#### 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.

SYMBOL	PARAMETER	RATING	UNITS
VR	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

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

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

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



Size : 1.7mm x 0.9mm x 0.5mm



## **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	0.8			
D	1.7			
E	0.5			
unit	mm			



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





## **TYPICAL PERFORMANCE CHARACTERISTICS 2**







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



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