

L5206F

EK0506-0006 Ver.C



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)

SYMBOL	PARAMETER	RATING	UNITS
V_R	Reverse Voltage	180	V
P_D [1]	Power Dissipation	300	mW
T_j	Junction Temperature	150	°C
T_{stg}	Storage Temperature Range	-55 to 150	°C

[1] Mounting on glass epoxy PCB (50mm x 50mm x 1.6mm)

■ ELECTRICAL CHARACTERISTICS (Ta=25°C)

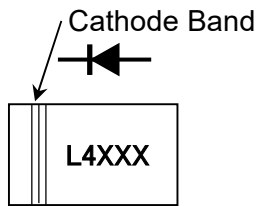
SYMBOL	PARAMETER	CONDITIONS	LIMITS			UNITS
			MIN	TYP	MAX	
I_R	Reverse Current	V_R = 180V	-	-	10	μA
V_F	Forward Voltage	I_F = 50mA	-	-	1.0	V
R_{fs}	Forward Series Resistance	I_F = 50mA, f = 100MHz	-	1.0	1.5	Ω
C_T	Diode Capacitance	V_R = 40V, f = 100MHz	-	0.15	0.22	pF
R_p	Parallel Resistance	V_R = 0V, f = 100MHz	5.0	10.0	-	kΩ
I_L [2]	Insertion Loss	I_F = 30mA, f = 3GHz	-	-0.18	-	dB
I_{SO} [2]	Isolation	V_R = -20V, f = 3GHz	-	-10	-	dB

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

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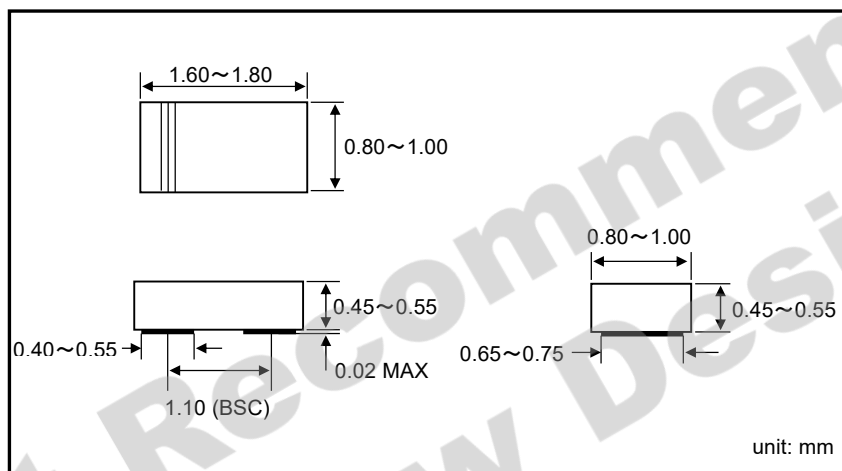
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■ MARKING INFORMATION

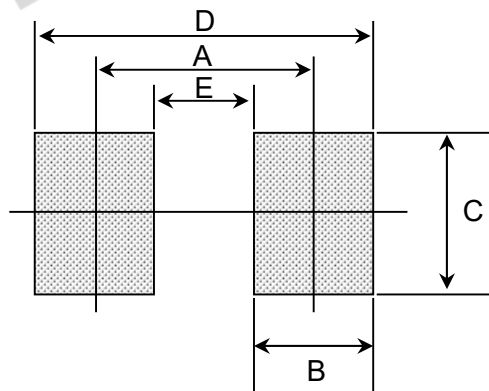


L4 : Part number L5206F
XXX : Lot code (3~4digits)

■ PACKAGE OUTLINE INFORMATION



■ SUGGESTED PAD LAYOUT

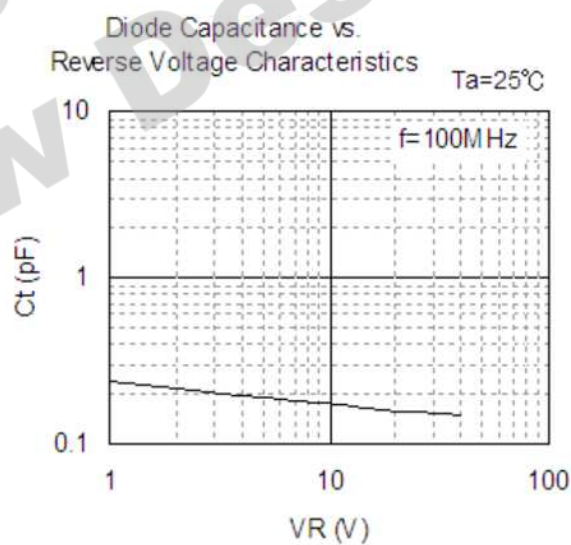
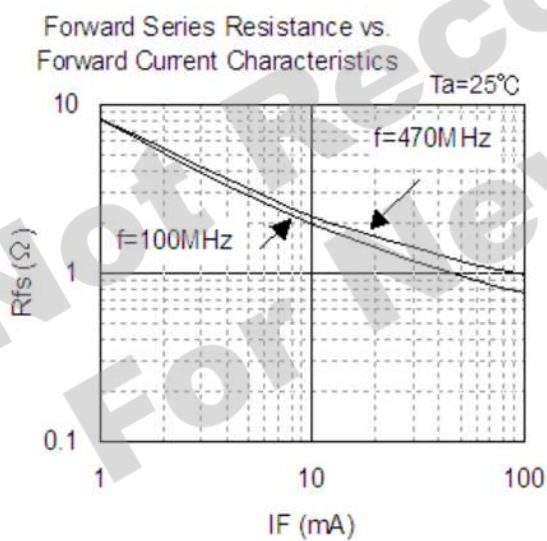
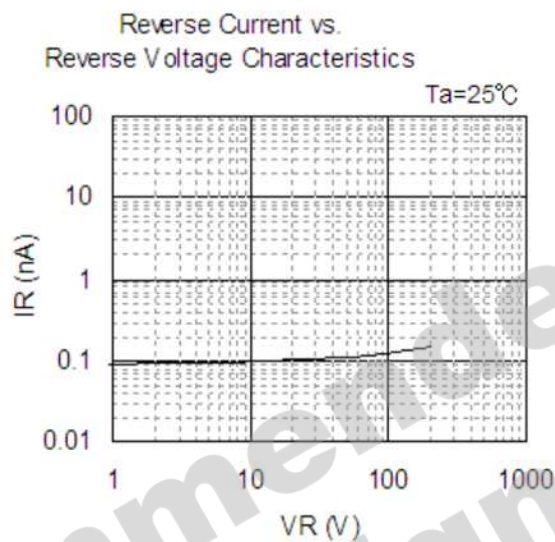
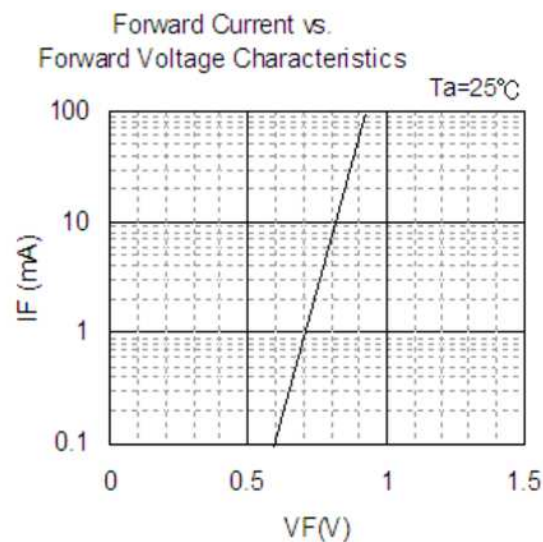


Size	SOD-523F (0603C)
A	1.1
B	0.6
C	0.8
D	1.7
E	0.5
unit	mm

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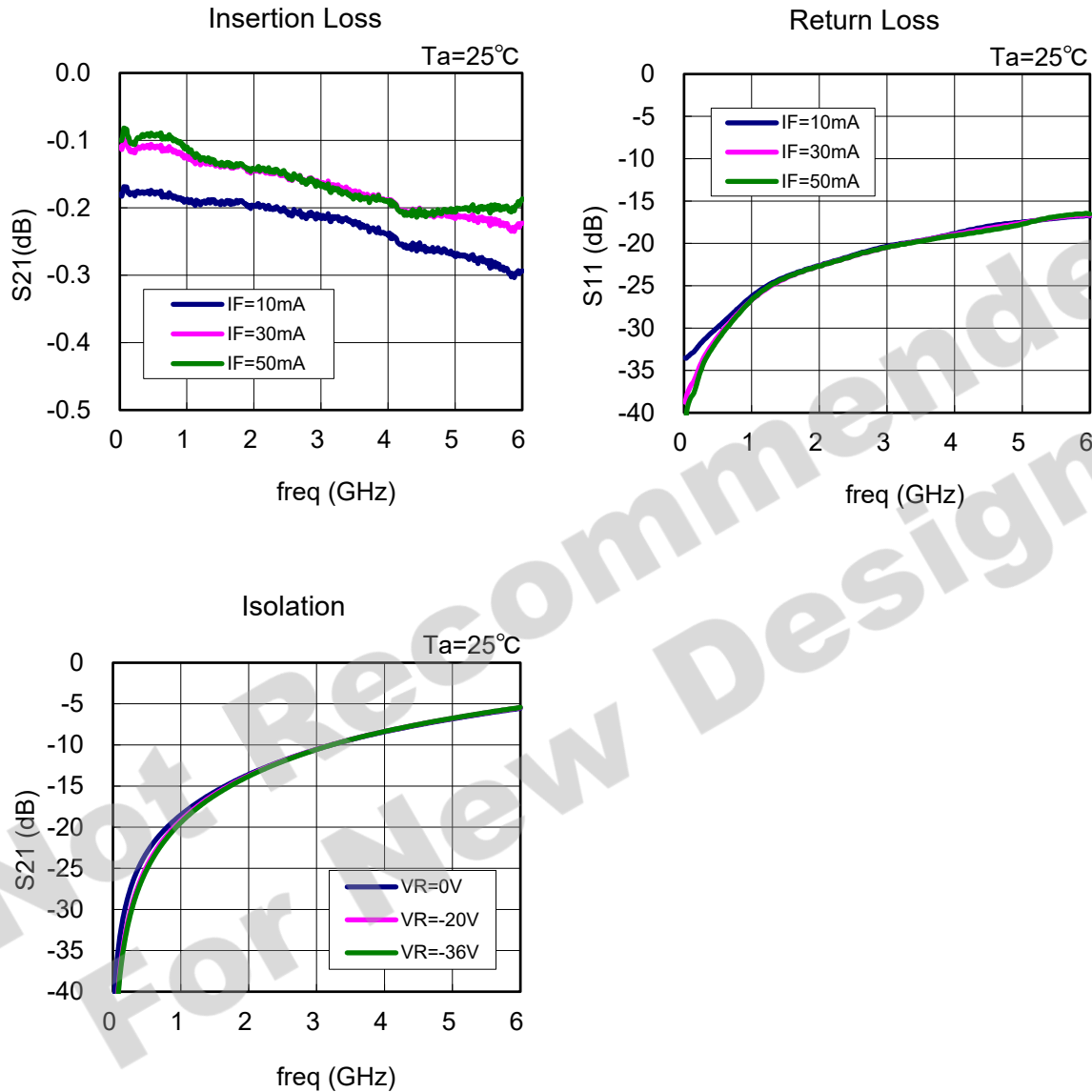
■ TYPICAL PERFORMANCE CHARACTERISTICS 1



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■ TYPICAL PERFORMANCE CHARACTERISTICS 2



*) Series configuration. $Z_0=50\ \Omega$.
Losses of test fixtures are excluded from the measuring data.

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