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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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CPINUC5206-HF

RoHS Device
Halogen Free



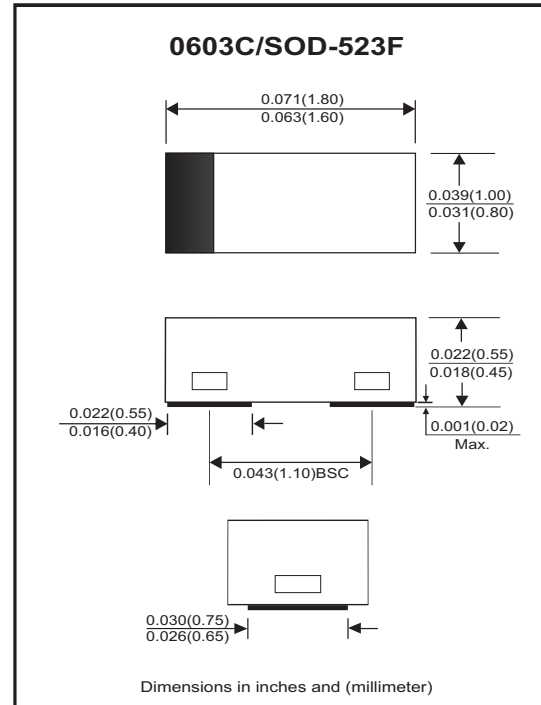
Features

- Low series resistance.
- Low insertion loss.
- Low capacitance.
- High isolation.

Mechanical data

- Case: SOD-523F (0603C) standard package molded plastic.
- Terminals: Matte tin plated, Solderable per MIL-STD-750, Method 2026.
- Polarity: Indicated by cathode band.
- Weight: 0.003 grams(approx.).

Circuit diagram



Maximum Rating (at $T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Conditions	Symbol	Value	Unit
Reverse voltage		V_R	180	V
Power dissipation	Mounting on glass epoxy PCB (50mm x 50mm x 1.6mm)	P_D	300	mW
Junction temperature range		T_J	150	$^\circ\text{C}$
Storage temperature range		T_{STG}	-55~+150	$^\circ\text{C}$

Electrical Characteristics (at $T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Reverse current	$V_R = 180\text{V}$	I_R			10	μA
Forward voltage	$I_F = 50\text{mA}$	V_F			1.0	V
Forward series resistance	$I_F = 50\text{mA}$, $f = 100\text{MHz}$	R_{fs}		1.0	1.5	Ω
Diode capacitance	$V_R = 40\text{V}$, $f = 100\text{MHz}$	C_T		0.15	0.22	pF
Parallel resistance	$V_R = 0\text{V}$, $f = 100\text{MHz}$	R_p	5.0	10.0		k Ω
Insertion loss	$I_F = 30\text{mA}$, $f = 3\text{GHz}$	$I_L (1)$		-0.18		dB
Isolation	$V_R = -20\text{V}$, $f = 3\text{GHz}$	$I_{so} (1)$		-10		dB

Notes: 1. Series configuration $Z_o=50\Omega$. Losses of test fixtures are excluded from the measuring data.

TYPICAL PERFORMANCE CHARACTERISTICS (CPINUC5206-HF)

Fig.1 - Forward Current vs. Forward Voltage Characteristics

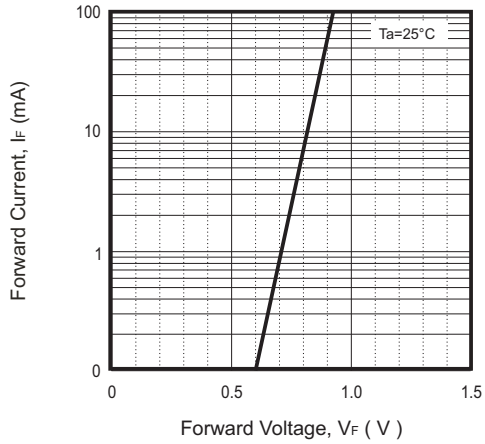


Fig.2 - Reverse Current vs. Reverse Voltage Characteristics

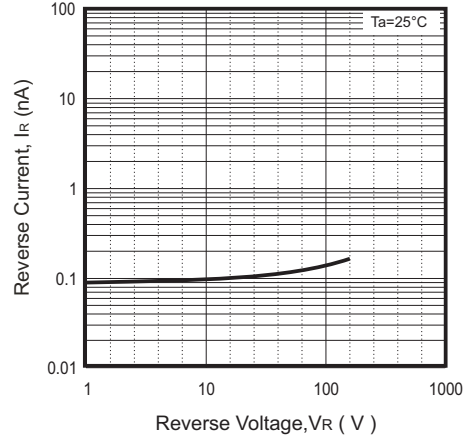


Fig.3 - Forward Series Resistance Vs. Forward Current Characteristics

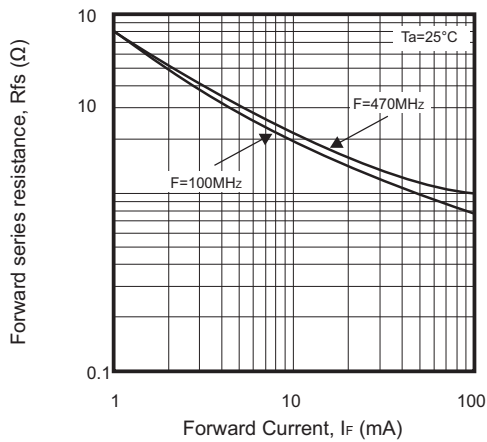
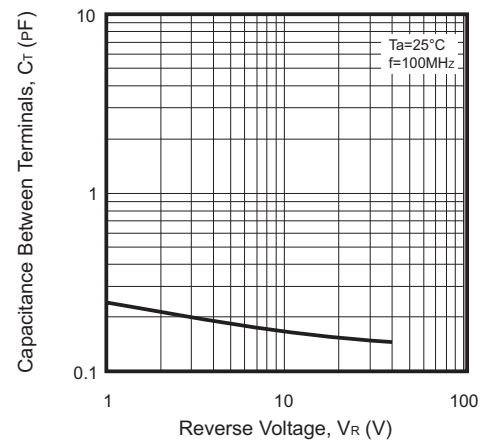
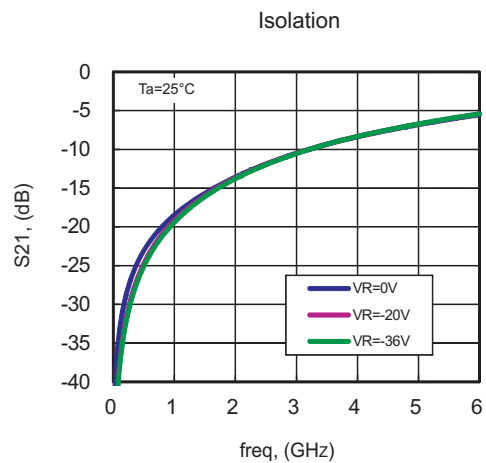
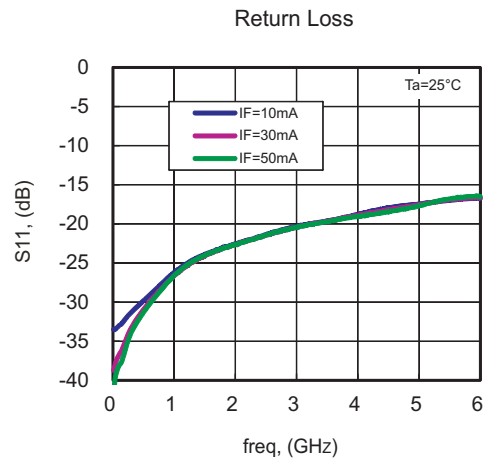
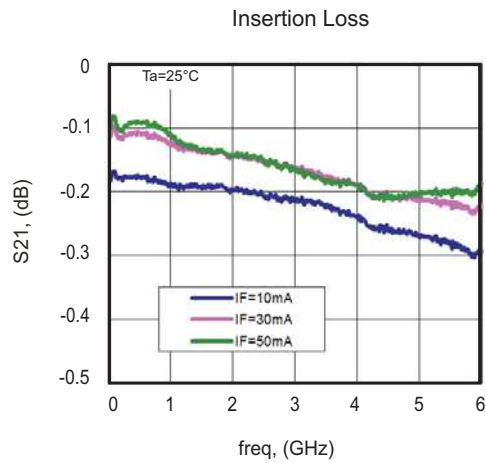


Fig.4 - Diode Capacitance Vs. Reverse Voltage Characteristics

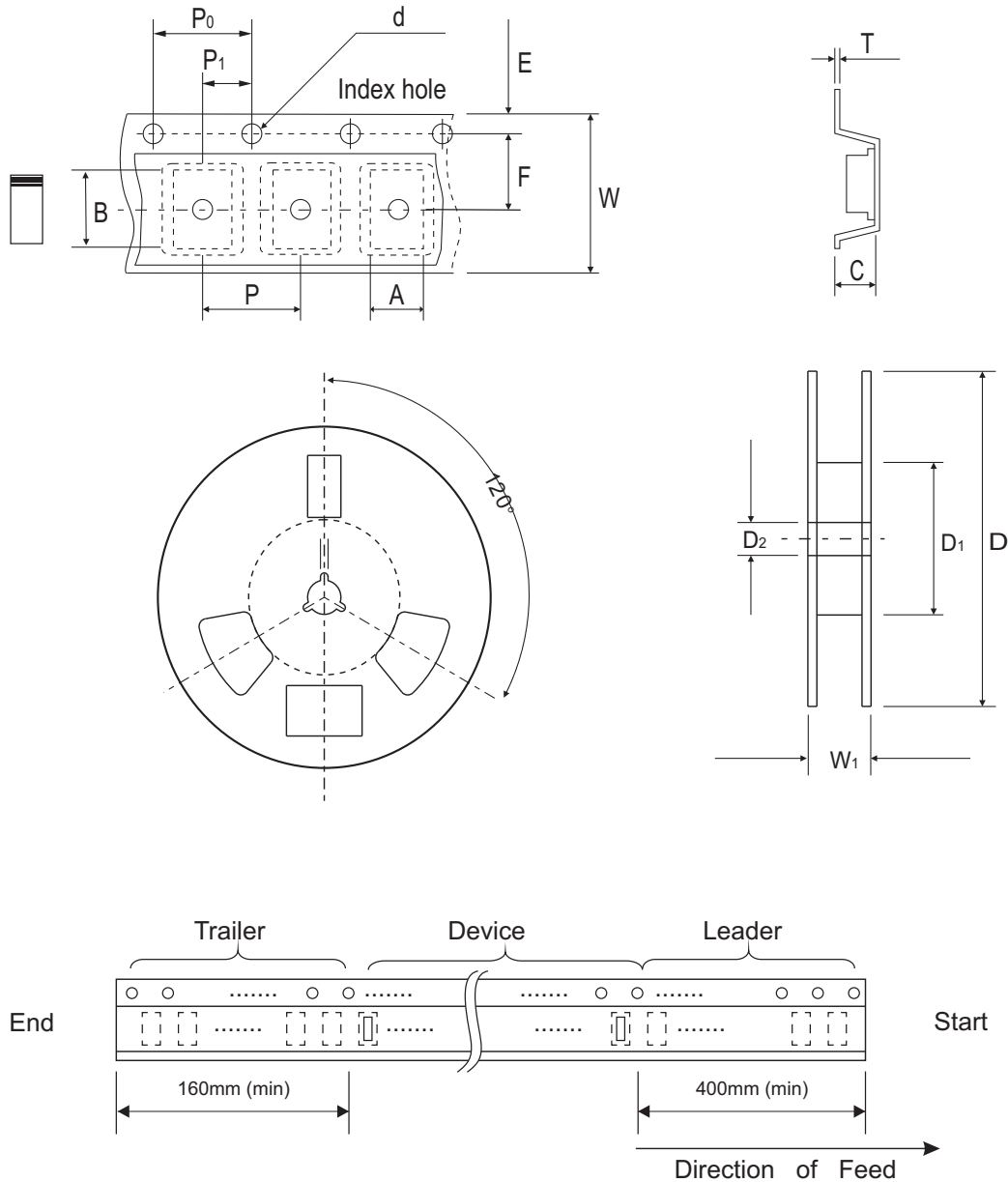


TYPICAL PERFORMANCE CHARACTERISTICS (CPINUC5206-HF)



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

Reel Taping Specification



0603C/ SOD-523F	SYMBOL	A	B	C	d	D	D ₁	D ₂
	(mm)	1.05 ± 0.05	1.96 ± 0.05	0.57 ± 0.05	1.50 + 0.10 - 0	178.00 ± 1.00	60.00 ± 0.50	13.50 ± 0.20
	(inch)	0.041 ± 0.002	0.077 ± 0.002	0.022 ± 0.002	0.059 + 0.004 - 0	7.008 ± 0.039	2.362 ± 0.020	0.531 ± 0.008

0603C/ SOD-523F	SYMBOL	E	F	P	P ₀	P ₁	T	W	W ₁
	(mm)	1.75 ± 0.10	3.50 ± 0.05	4.00 ± 0.10	4.00 ± 0.05	2.00 ± 0.05	0.20 ± 0.03	8.00 ± 0.20	12.00 + 0.50 - 0
	(inch)	0.069 ± 0.004	0.138 ± 0.002	0.157 ± 0.004	0.157 ± 0.002	0.079 ± 0.002	0.008 ± 0.001	0.315 ± 0.008	0.472 + 0.020 - 0

Marking Code

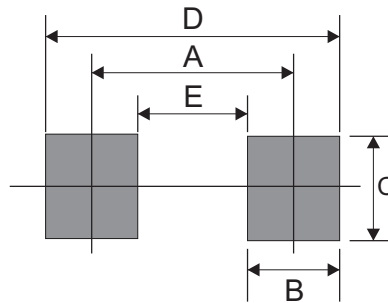
Part Number	Marking Code
CPINUC5206-HF	L4XXX



XXX = Lot Code (3~4 digits)

Suggested PAD Layout

SIZE	0603C/SOD-523F	
	(mm)	(inch)
A	1.10	0.043
B	0.60	0.024
C	0.80	0.031
D	1.70	0.067
E	0.50	0.020



Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
0603C/SOD-523F	4,000	7