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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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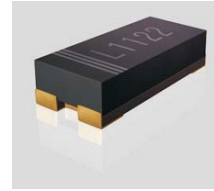
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CPINF5204-HF

RoHS Device
Halogen Free

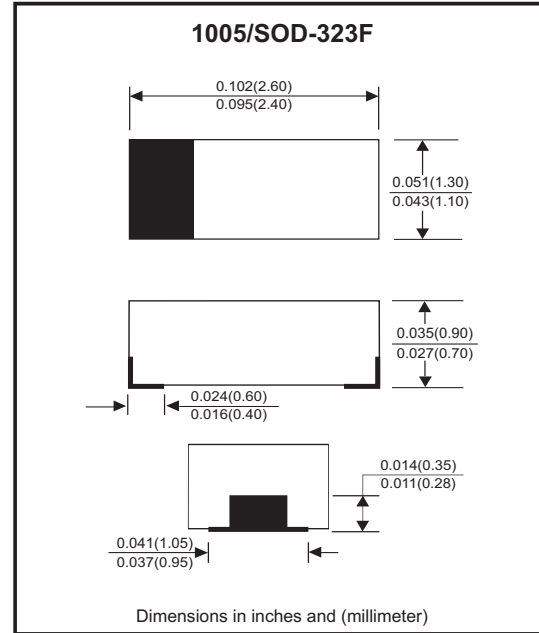


Features

- High Power Handling for VHF/UHF band.
- Low Capacitance at Zero Bias, Extremely Small Reverse Bias.
- Low Series Resistance.
- Very Low Insertion Loss, High Isolation.

Mechanical data

- Case: 1005/SOD-323F molded plastic package.
- Terminals: Gold plated, solderable per MIL-STD-750, method 2026.
- Polarity: Indicated by cathode band.
- Weight: 0.006 grams(approx.).



Circuit Diagram



Maximum Rating (at TA=25°C unless otherwise noted)

Parameter	Symbol	Rating	Unit
Reverse Voltage	V _R	180	V
Power Dissipation (Note 1)	P _D	500	mW
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{STG}	-55~+150	°C

Note: 1.Mounting on glass epoxy PCB (50mm x 50mm x 1.6mm).

Electrical Characteristics (at TA=25°C unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Reverse Current	V _R = 180V	I _R	-	-	10	μA
Forward Voltage	I _F = 100mA	V _F	-	-	1.0	V
Diode Capacitance	V _R = 40V , f = 100MHz	C _T	-	-	0.9	pF
Forward Series Resistance	I _F = 50mA , f = 100MHz	R _{fs}	-	0.5	0.75	Ω

Company reserves the right to improve product design , functions and reliability without notice.

TYPICAL RATING AND CHARACTERISTIC CURVES (CPINF5204-HF)

Fig.1 - Forward Current VS. Forward Voltage

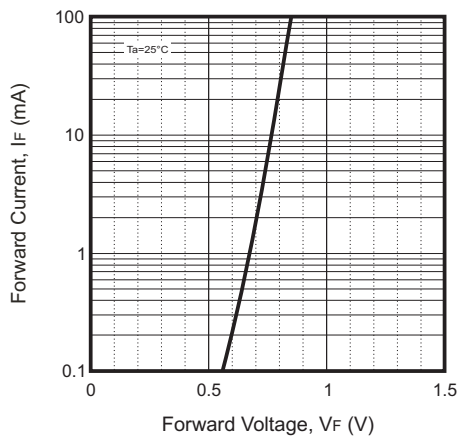


Fig.2 - Reverse Current VS. Reverse Voltage

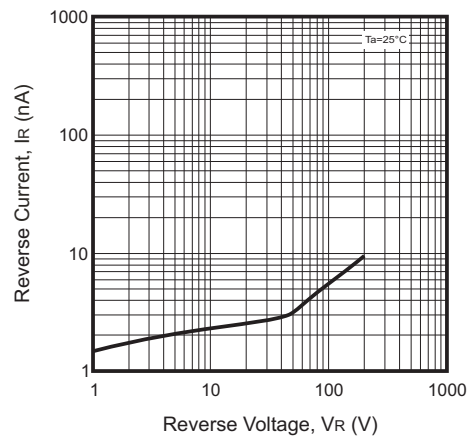


Fig.3 - Forward Series Resistance VS. Forward Current

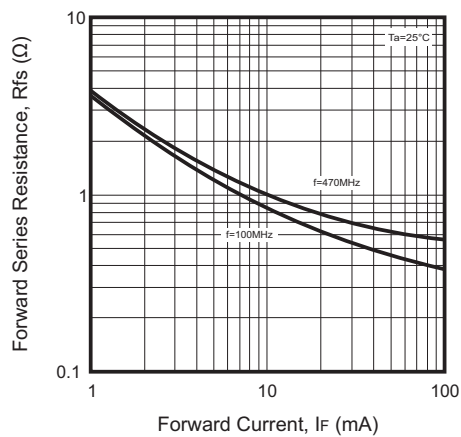
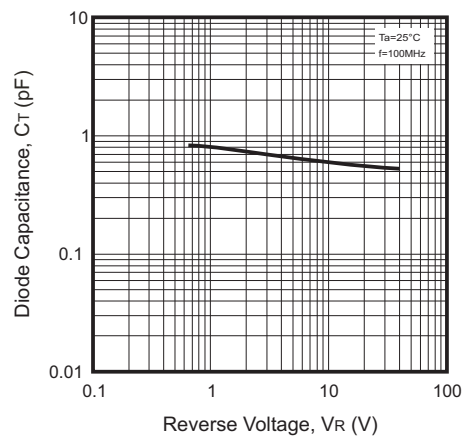
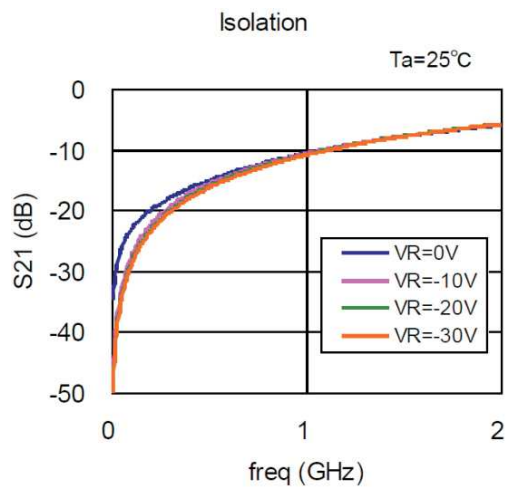
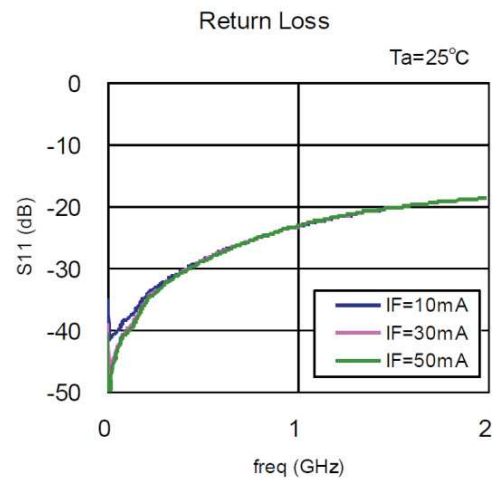
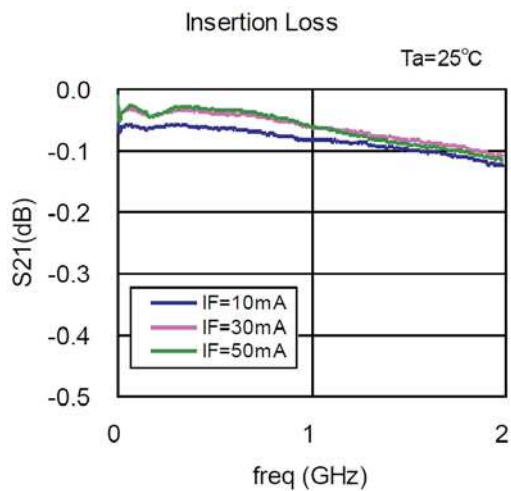


Fig.4 - Diode Capacitance VS. Reverse Voltage

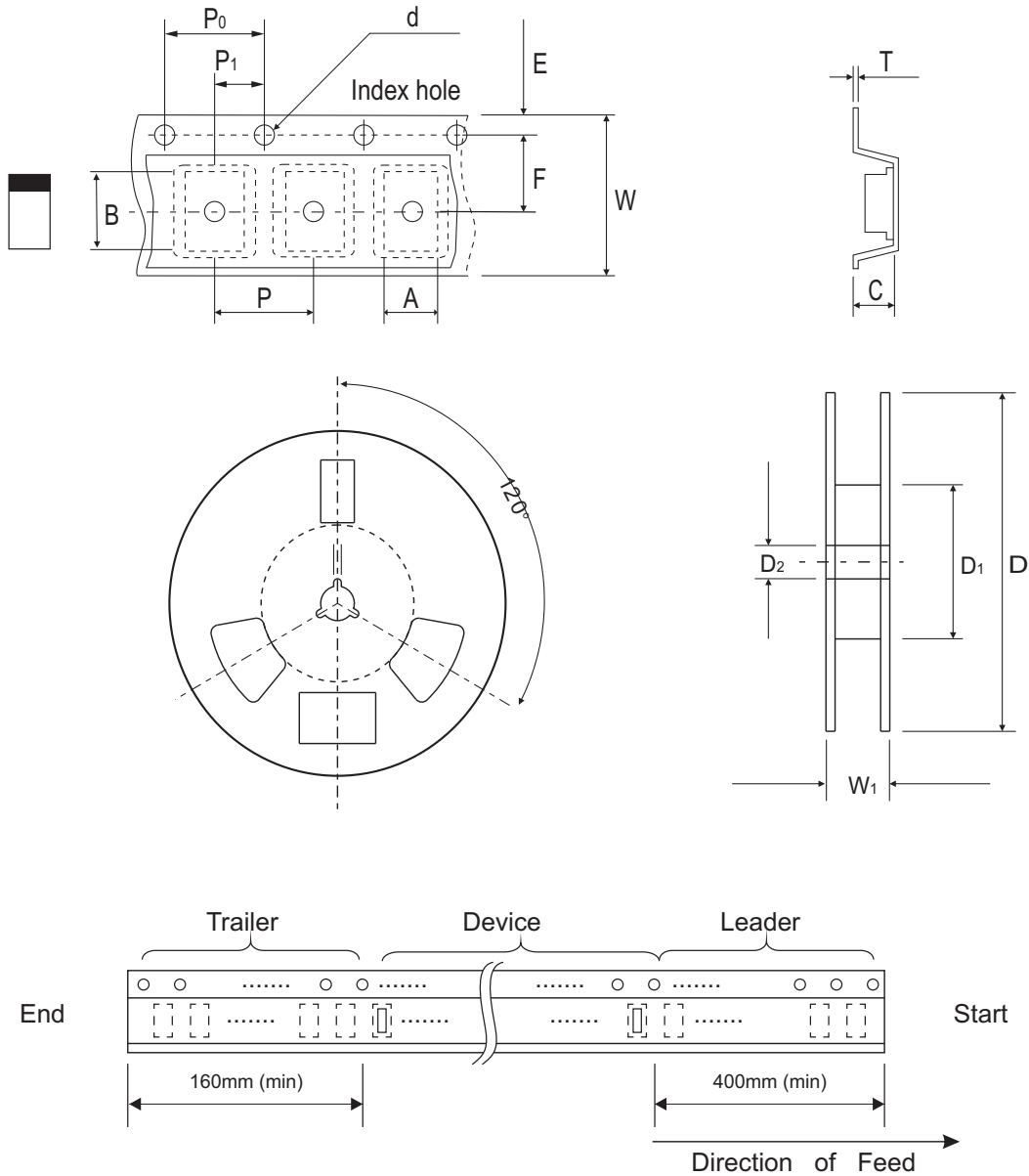


TYPICAL RATING AND CHARACTERISTIC CURVES (CPINF5204-HF)



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

Reel Taping Specification



1005 (SOD-323F)	SYMBOL	A	B	C	d	D	D ₁	D ₂
	(mm)	1.45 ± 0.05	2.80 ± 0.05	1.00 ± 0.05	1.50 + 0.10 - 0	178.00 ± 1.00	60.00 ± 0.50	13.50 ± 0.20
	(inch)	0.057 ± 0.002	0.110 ± 0.002	0.039 ± 0.002	0.059 + 0.004 - 0	7.008 ± 0.039	2.362 ± 0.020	0.531 ± 0.008

1005 (SOD-323F)	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 ± 0.10	2.00 ± 0.05	0.23 ± 0.05	8.00 ± 0.10	12.00 + 0.50 - 0
	(inch)	0.069 ± 0.004	0.138 ± 0.002	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.002	0.009 ± 0.002	0.315 ± 0.004	0.472 + 0.020 - 0

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Marking Code

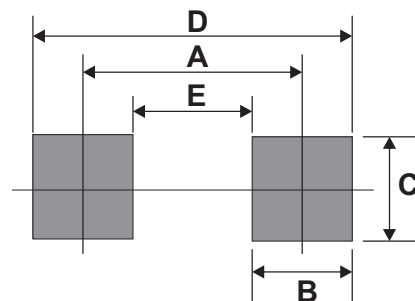
Part Number	Marking Code
CPINF5204-HF	L1XXX



XXX = Lot code (3~4 digits)

Suggested PAD Layout

SIZE	1005/SOD-323F	
	(mm)	(inch)
A	2.10	0.083
B	1.20	0.047
C	1.20	0.047
D	3.30	0.130
E	0.90	0.035



Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
1005/ SOD-323F	4,000	7