

CPINF5204-HF

RoHS Device

Halogen Free

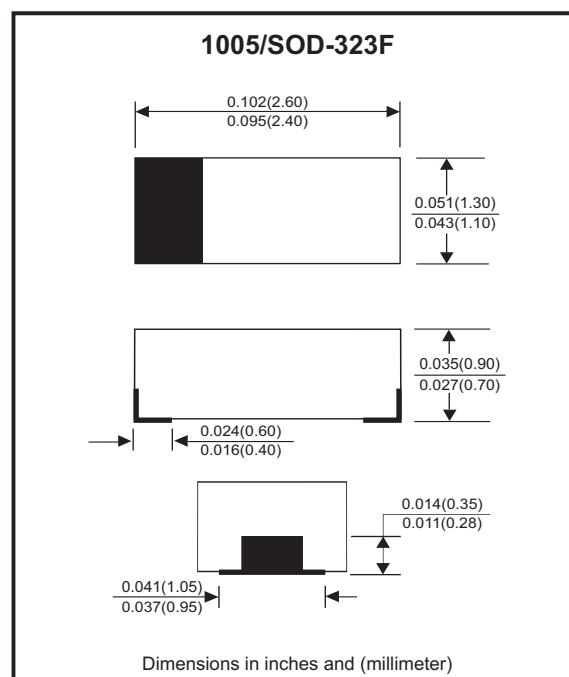


Features

- 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 standard package, molded plastic.
- 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 $T_A=25^{\circ}\text{C}$ 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	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55~+150	$^{\circ}\text{C}$

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

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	$I_F = 100\text{mA}$	V_F	-	-	1.0	V
Diode Capacitance	$V_R = 40\text{V}$, $f = 100\text{MHz}$	C_T	-	-	0.9	pF
Forward Series Resistance	$I_F = 50\text{mA}$, $f = 100\text{MHz}$	R_{fs}	-	0.5	0.75	Ω

TYPICAL RATING AND CHARACTERISTIC CURVES (CPINF5204-HF)

Fig.1 - Forward Current VS.
Forward Voltage

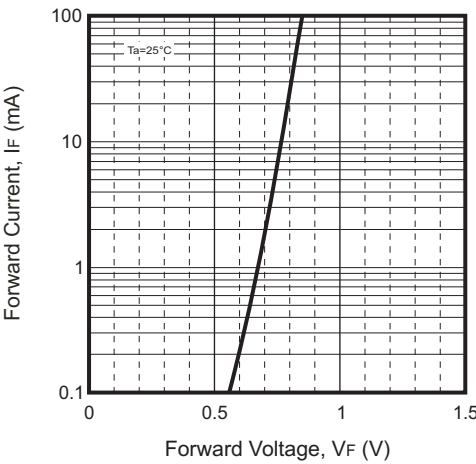


Fig.2 - Reverse Current VS.
Reverse Voltage

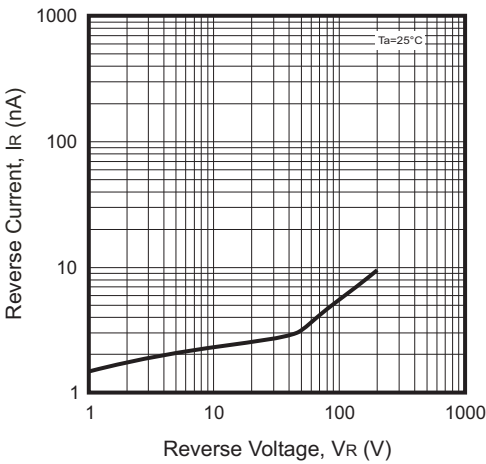


Fig.3 - Forward Series Resistance
VS. Forward Current

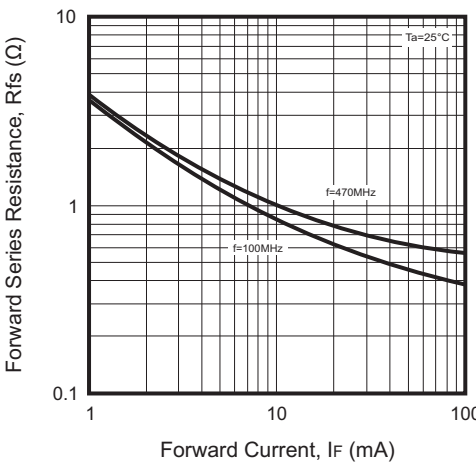
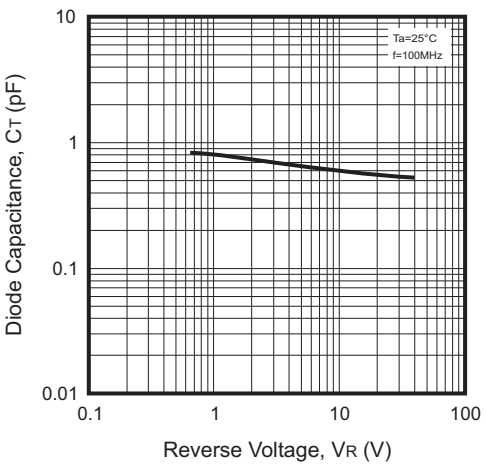
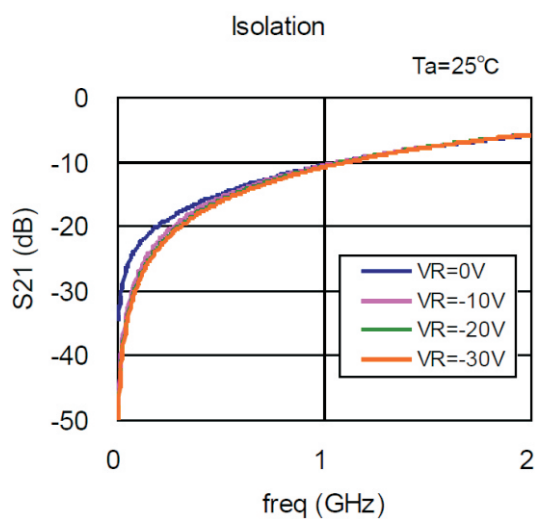
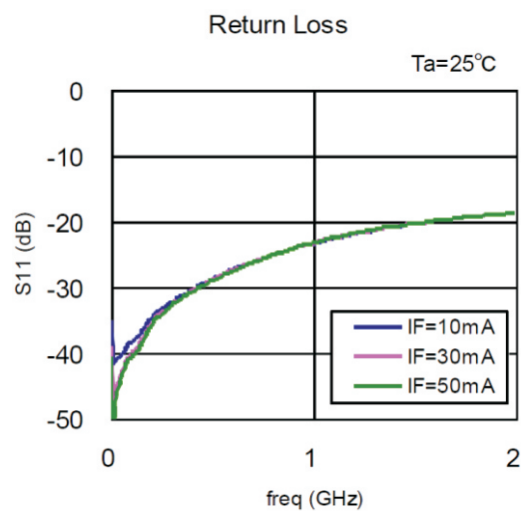
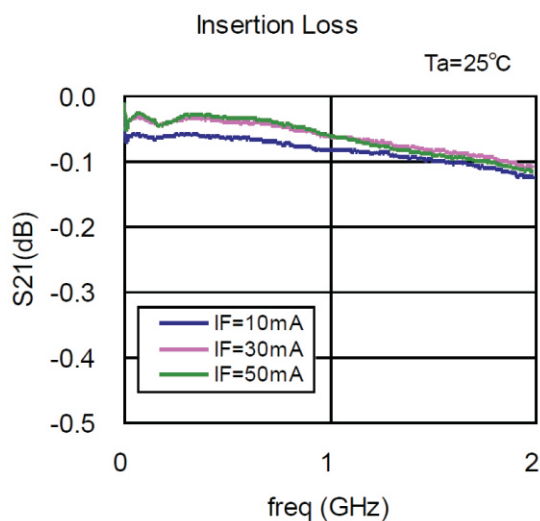


Fig.4 - Diode Capacitance VS.
Reverse Voltage



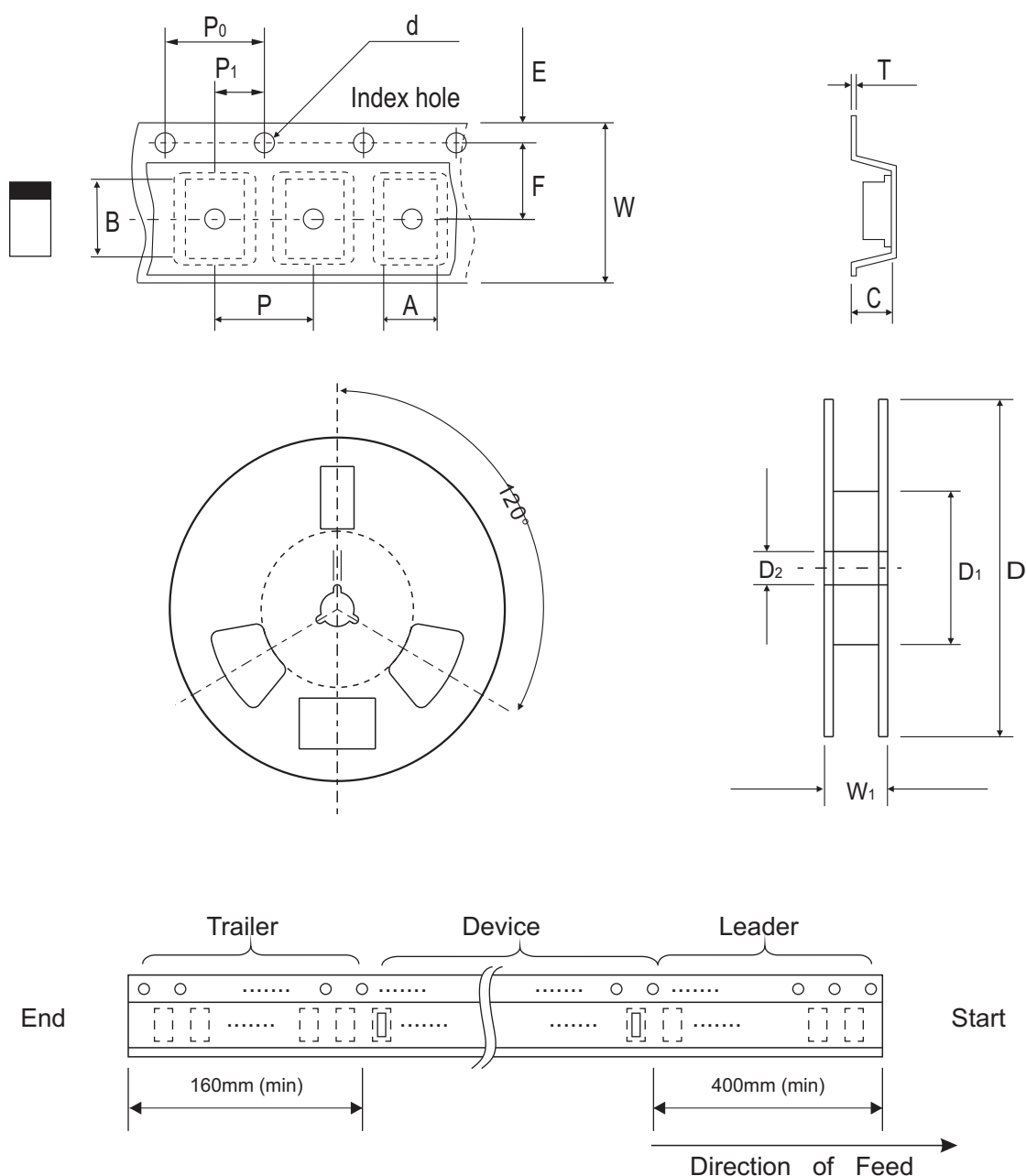
TYPICAL RATING AND CHARACTERISTIC CURVES (CPINF5204-HF)



Note: Series configuration. $Z_0=50\Omega$

Losses of test fixtures are excluded from the measuring data.

Reel Taping Specification

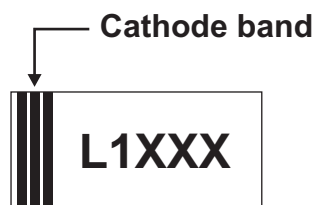


1005 (SOD-323F)	SYMBOL	A	B	C	d	D	D ₁	D ₂
	(mm)	1.45 ± 0.05	2.80 ± 0.05	1.00 ± 0.05	1.50 + 0.10 - 0	178.00 ± 1.00	60.00 ± 0.50	13.50 ± 0.20
	(inch)	0.057 ± 0.002	0.110 ± 0.002	0.039 ± 0.002	0.059 + 0.004 - 0	7.008 ± 0.039	2.362 ± 0.020	0.531 ± 0.008

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

Marking Code

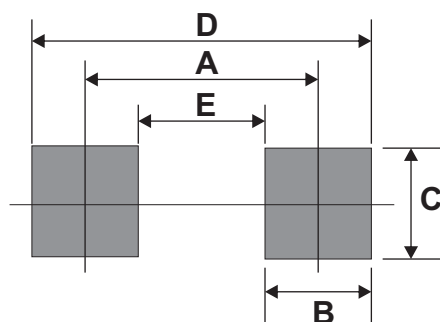
Part Number	Marking Code
CPINF5204-HF	L1XXX



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

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