

# L9204F

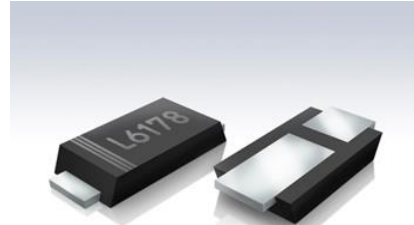
EK0506-0008 Ver.D



## PIN Diode

### ■ FEATURES

- High power handling for VHF/UHF band
- Small capacitance at zero bias  
and/or extremely small reverse bias
- Low series resistance
- Very low insertion loss, high isolation
- Surface mountable plastic molded package
- RoHS compliant
- Lead free / Halogen free



size : 1.6 x 3.5 x 0.5 mm (typ)

### ■ MECHANICAL DATA

- Case : SOD-123 ST package  
molded plastic.
- Terminals : Tin plated, solderable per  
MIL-STD-750, method 2026.
- Polarity : Indicated by cathode band.

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

SYMBOL	PARAMETER	RATING	UNITS
<b>V<sub>R</sub></b>	Reverse Voltage	180	V
<b>P<sub>D</sub>*</b>	Power Dissipation	1	W
<b>T<sub>j</sub></b>	Junction Temperature	150	°C
<b>T<sub>stg</sub></b>	Storage Temperature Range	-55 to 150	°C

\*) Mounting on glass epoxy PCB (50mm x 50mm x 1.6mm)

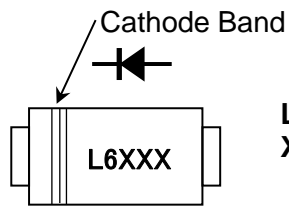
### ■ ELECTRICAL CHARACTERISTICS (Ta=25°C)

SYMBOL	PARAMETER	CONDITIONS	LIMITS			UNITS
			MIN	TYP	MAX	
<b>I<sub>R</sub></b>	Reverse Current	<b>V<sub>R</sub></b> = 180V	-	-	10	μA
<b>V<sub>F</sub></b>	Forward Voltage	<b>I<sub>F</sub></b> = 50mA	-	-	1.0	V
<b>C<sub>T</sub></b>	Diode Capacitance	<b>V<sub>R</sub></b> = 40V, f = 100MHz	-	0.6	0.9	pF
<b>R<sub>fs</sub></b>	Forward Series Resistance	<b>I<sub>F</sub></b> = 50mA, f = 100MHz	-	0.4	0.65	Ω
<b>R<sub>p</sub></b>	Parallel Resistance	<b>V<sub>R</sub></b> = 0V, f = 100MHz	1.0	3.0	-	kΩ

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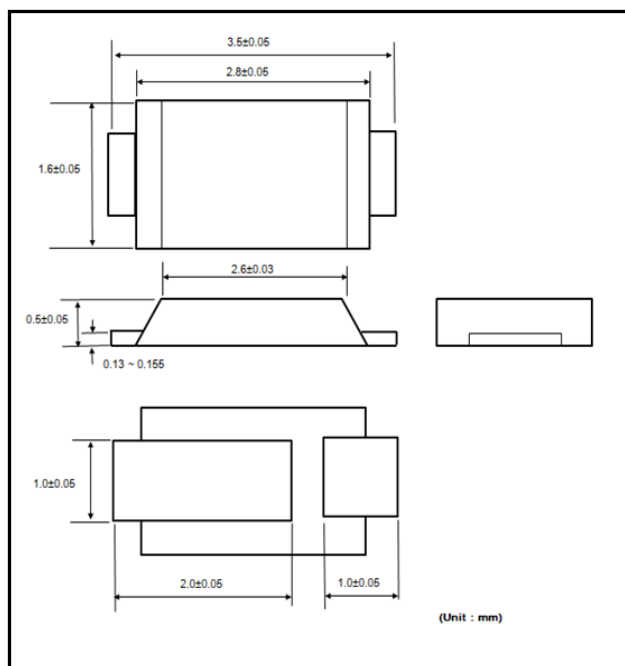
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## MARKING INFORMATION

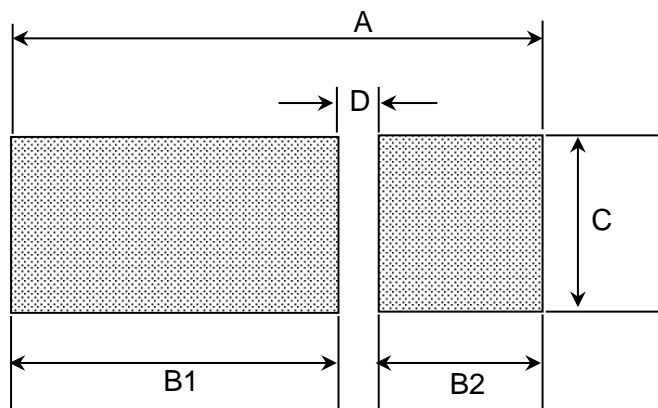


L6 : Parts number L9204F  
XXX : Lot Code (3~4digits)

## PACKAGE OUTLINE INFORMATION



## SUGGESTED PAD LAYOUT



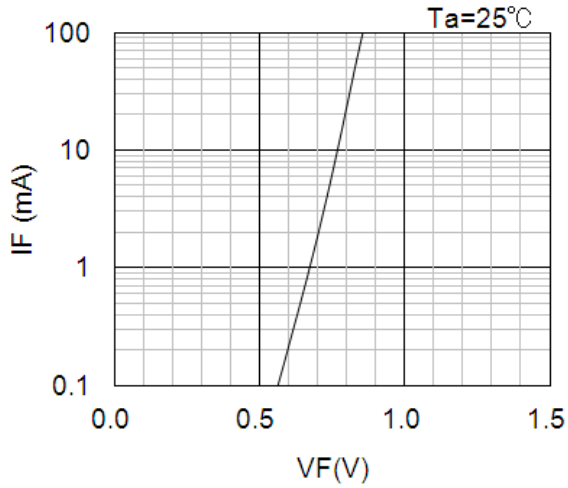
Size	SOD-123ST
A	3.9
B1	2.3
B2	1.3
C	1.4
D	0.3
unit	mm

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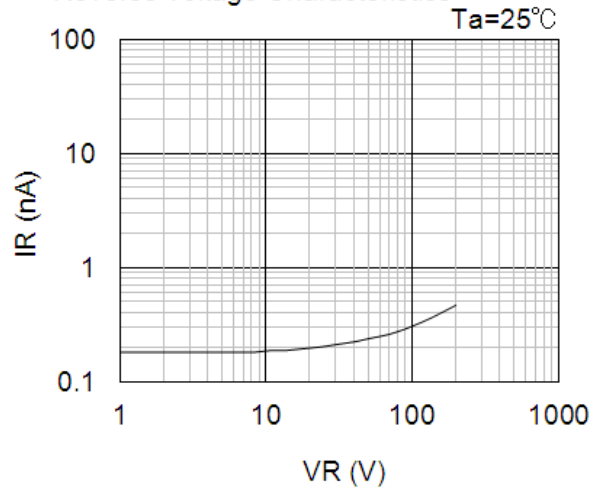
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## ■ TYPICAL PERFORMANCE CHARACTERISTICS

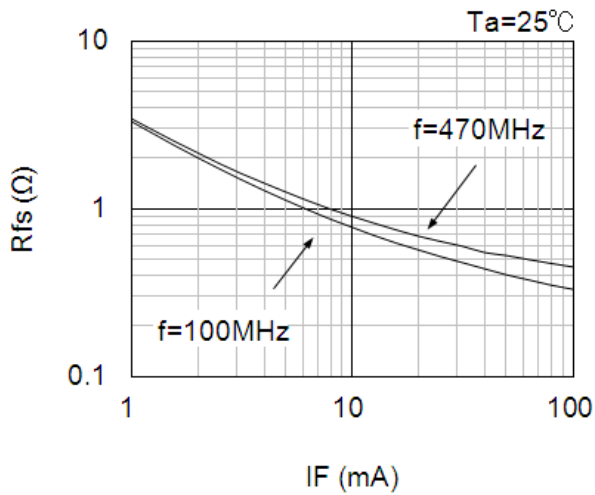
Forward Current vs.  
Forward Voltage Characteristics



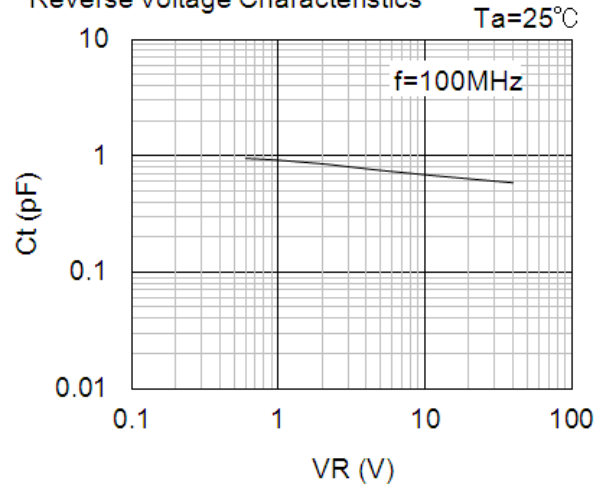
Reverse Current vs.  
Reverse Voltage Characteristics



Forward Series Resistance vs.  
Forward Current Characteristics



Diode Capacitance vs.  
Reverse Voltage Characteristics



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