

# L8104

EK0502-0018 Ver.C



## PIN Diode

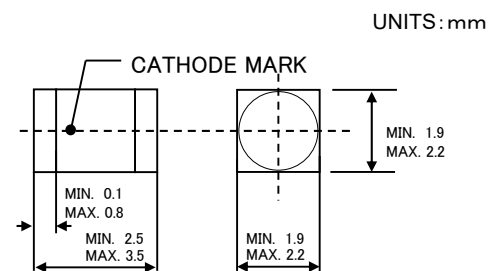
### ■ FEATURES

- High Power Handling
- Low Capacitance at Zero Bias,  
Extremely Small Reverse Bias
- Low Series Resistance
- Very Low Insertion Loss, High Isolation
- Hermetic Ceramic MELF Package
- RoHS Compliant
- Pb Free

### ■ DESCRIPTIONS

The L8104 PIN diode is designed for high power antenna switches in two-way radios.

### ■ DIMENSION



### ■ 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	3	W
<b>T<sub>j</sub></b>	Junction Temperature	175	°C
<b>T<sub>stg</sub></b>	Storage Temperature Range	-55 to 175	°C

\*) 25°C contacts

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

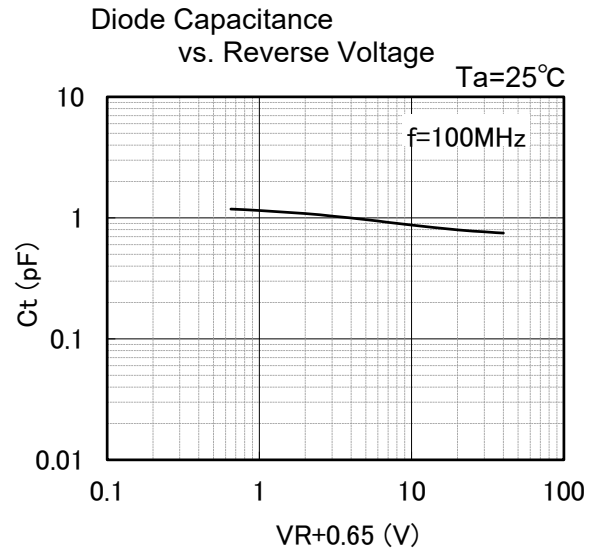
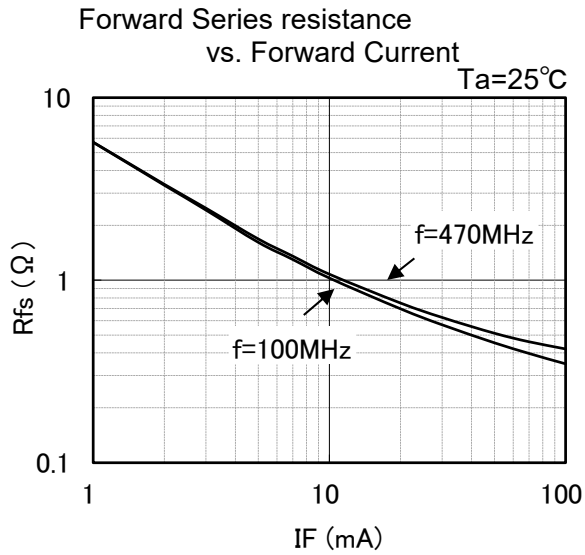
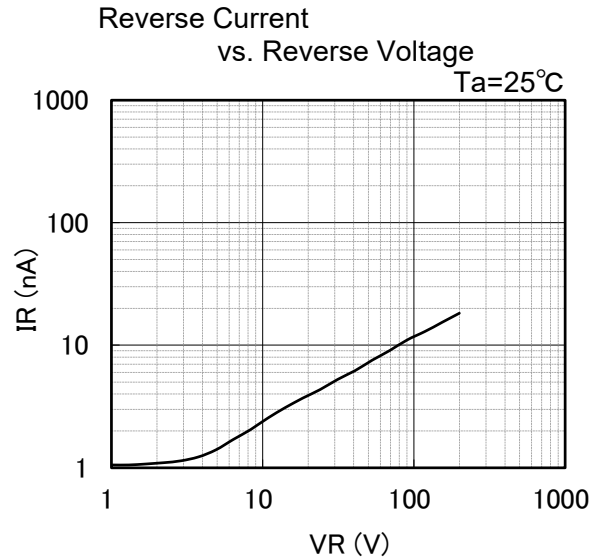
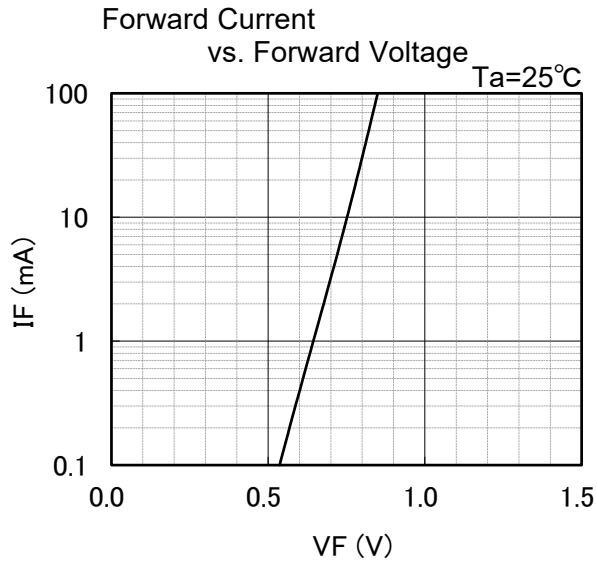
SYMBOL	PARAMETER	CONDITIONS	LIMITS			UNITS
			MIN	TYP	MAX	
<b>I<sub>R</sub></b>	Reverse Current	<b>V<sub>R</sub></b> = 180V	-	-	10	μA
<b>V<sub>F</sub></b>	Forward Voltage	<b>I<sub>F</sub></b> = 50mA	-	-	1.0	V
<b>C<sub>T</sub></b>	Diode Capacitance	<b>V<sub>R</sub></b> = 40V, f = 100MHz	-	-	1.2	pF
<b>R<sub>fs</sub></b>	Forward Series Resistance	<b>I<sub>F</sub></b> = 50mA, f = 100MHz	-	0.5	0.75	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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### ■ TYPICAL PERFORMANCE CHARACTERISTICS



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