THE DATASHEET OF

L8104R

www.win-source.net 0086-755-83957316

L8104

EK0502-0018 Ver.A

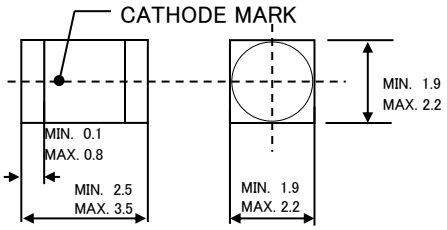
PIN Diode

■ 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

■ DIMENSION

UNITS : mm



■ DESCRIPTIONS

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

■ ABSOLUTE MAXIMUM RATINGS (Ta=25℃)

SYMBOL	PARAMETER	RATING	UNITS
V_R	Reverse Voltage	180	V
P_D *	Power Dissipation	3	W
T_j	Junction Temperature	175	℃
T_{stg}	Storage Temperature Range	-55 to 175	℃

*) 25℃ contacts

■ ELECTRICAL CHARACTERISTICS (Ta=25℃)

SYMBOL	PARAMETER	CONDITIONS	LIMITS			UNITS
			MIN	TYP	MAX	
I_R	Reverse Current	V_R = 180V	-	-	10	μA
V_F	Forward Voltage	I_F = 50mA	-	-	1.0	V
C_T	Diode Capacitance	V_R = 40V, f = 100MHz	-	-	1.2	pF
R_{fs}	Forward Series Resistance	I_F = 50mA, f = 100MHz	-	0.5	0.75	Ω
R_P	Parallel Resistance	V_R = 0V, f = 100MHz	1.0	3.0	-	kΩ

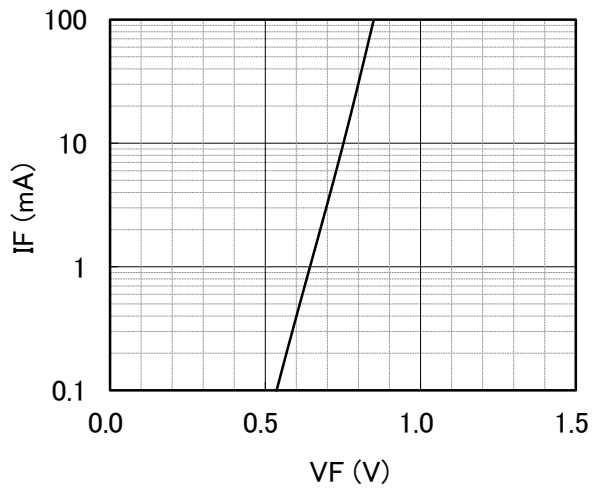
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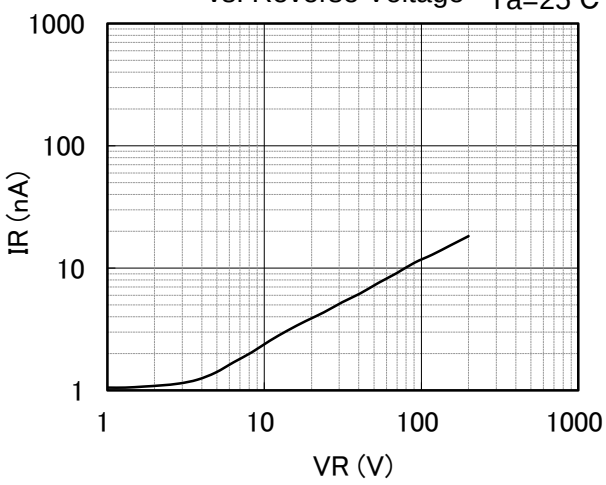
PIN Diode

■ TYPICAL PERFORMANCE CHARACTERISTICS

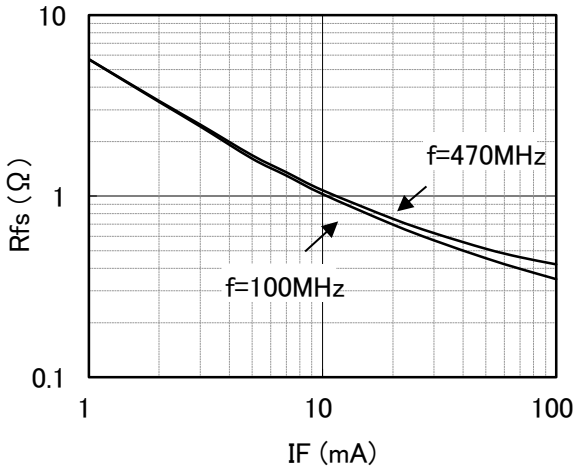
Forward Current vs. Forward Voltage Ta=25℃



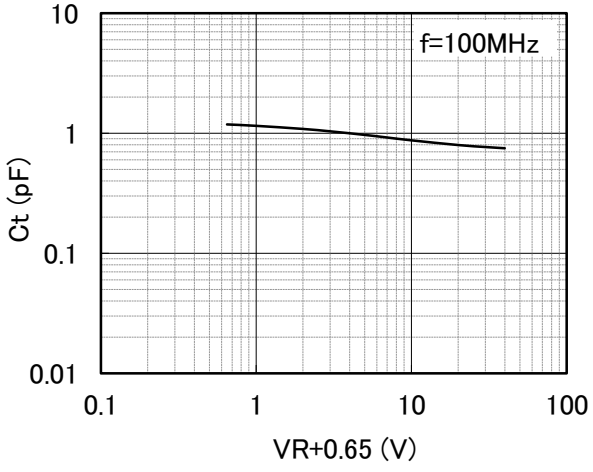
Reverse Current vs. Reverse Voltage Ta=25℃



Forward Series resistance vs. Forward Current Ta=25℃



Diode Capacitance vs. Reverse Voltage Ta=25℃



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