CEL

L204BB

EK0500-0009 Ver.C

PIN Diode

Litec

■ FEATURES

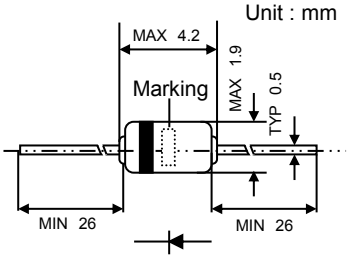
- Long Carrier Lifetime
- Low Distortion
- Large Dynamic Range
- RoHS Compliant

■ APPLICATIONS

- Filter Switches
- RF Attenuators (CATV etc)

■ DIMENSIONS

Unit : mm



JEDEC
DO-35

■ GENERAL DESCRIPTION

The L204BB is Long Carrier Life Time PIN diode designed for solid-state current control between Radio BC and 1GHz bands used in variable resistance attenuator.

■ ABSOLUTE MAXIMUM RATINGS (Ta=25℃)

SYMBOL	PARAMETER	RATINGS	UNITS
VRM	Repetitive Peak Reverse Voltage	30	V
VR	Reverse Voltage	28	V
P	Power Dissipation	200	mW
Tj	Junction Temperature	175	℃
Tstg	Storage Temperature Range	-55 to 175	℃

■ ELECTRICAL CHARACTERISTICS (Ta=25℃)

SYMBOL	PARAMETER	CONDITIONS	LIMITS			UNITS
			MIN	TYP	MAX	
IR1	Reverse Current	VR = 30V	-	-	10	μA
IR2		VR = 28V	-	-	0.5	μA
VF	Forward Voltage	IF = 100mA	-	-	1.0	V
rfs1	Forward Series Resistance	IF = 10mA, f = 50MHz	-	5.5	10	Ω
rfs2		IF = 10μA, f = 50MHz	1.0	2.0	-	kΩ
Ct	Diode Capacitance	VR = 15V, f = 1MHz	-	0.7	1.2	pF
τ	Life Time	IF = 10mA	-	2.1	-	μs
ts	Storage Time	IF = 10mA, IR = 10mA	0.6	1.5	-	μs

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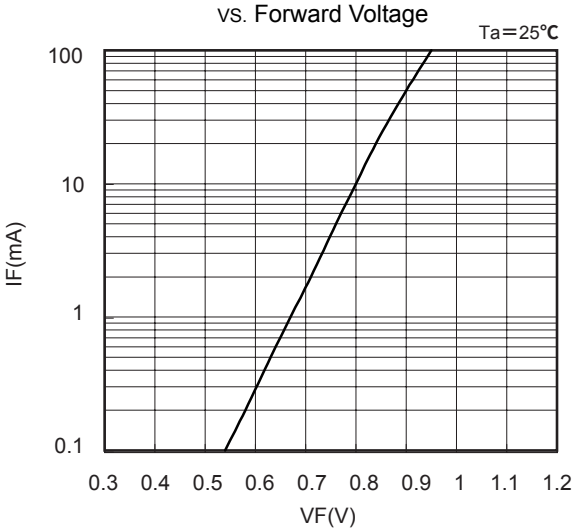
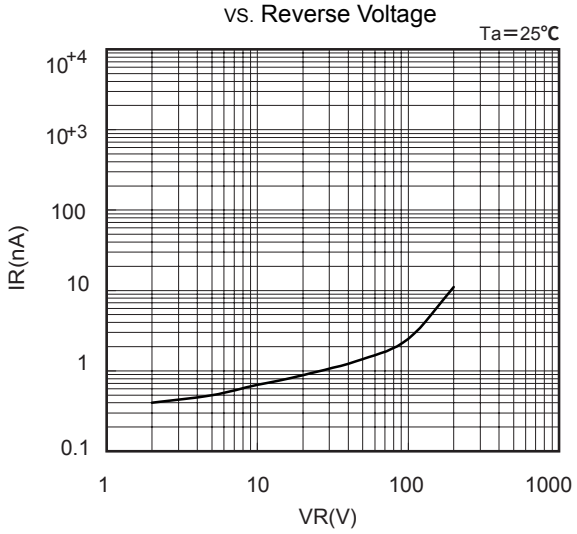
■ TYPICAL PERFORMANCE CHARACTERISTICS

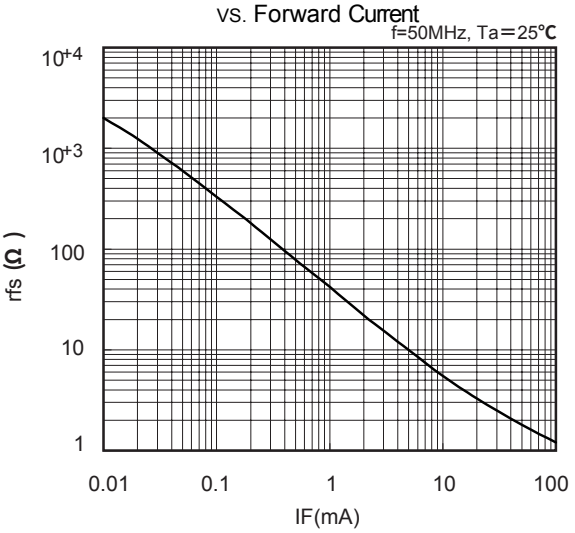
Forward Current vs. Forward Voltage



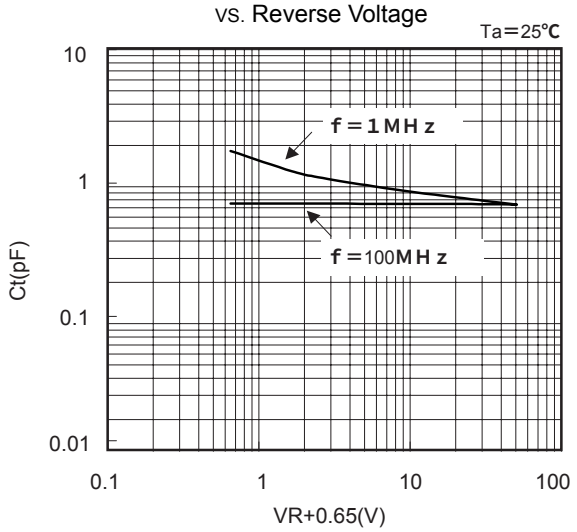
Reverse Current vs. Reverse Voltage



Forward Series Resistance vs. Forward Current



Diode Capacitance vs. Reverse Voltage



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