

# L407CD

EK0500-0014 Ver.B

## PIN Diode

### ■ FEATURES

- High Power Handling
- Low Capacitance at Zero Bias, Extremely Small Reverse Bias
- Low Forward Bias Resistance
- Low Insertion Loss, High Isolation
- Low Distortion  
(TX Spurious <-80dBc,  
RX Intermodulation ≒ -73dBC @ 90dBμ)
- RoHS Compliant

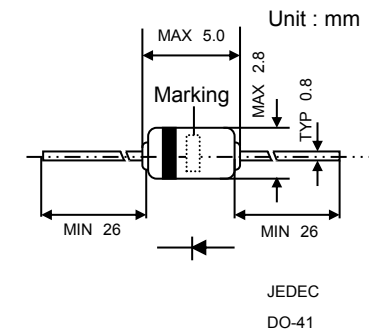
### ■ GENERAL DESCRIPTION

The L407CD PIN diode employs a high reliability glass package that is designed for solid state antenna switches used in commercial two-way radios.

### ■ APPLICATIONS

- High power antenna switch

### ■ DIMENSIONS



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

SYMBOL	PARAMETER	RATINGS	UNITS
VRM	Repetitive Peak Reverse Voltage	180	V
VR	Reverse Voltage	180	V
IFSM*	Forward Surge Current	2	A
P	Power Dissipation	1	W
Tj	Junction Temperature	175	°C
Tstg	Storage Temperature Range	-55 to 175	°C

\* t = 5sec

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

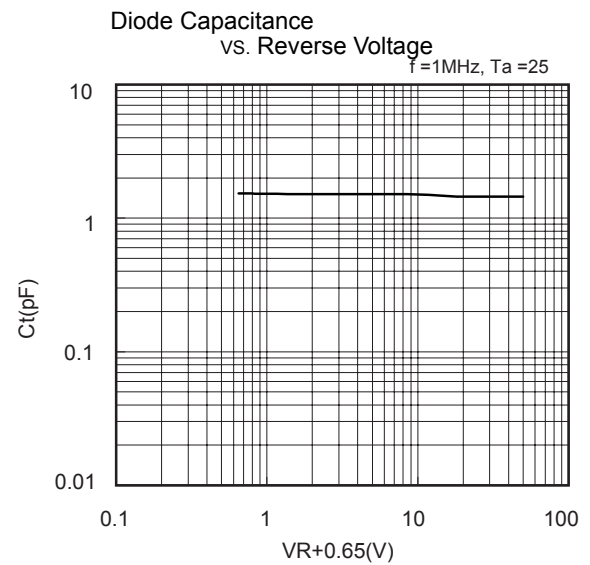
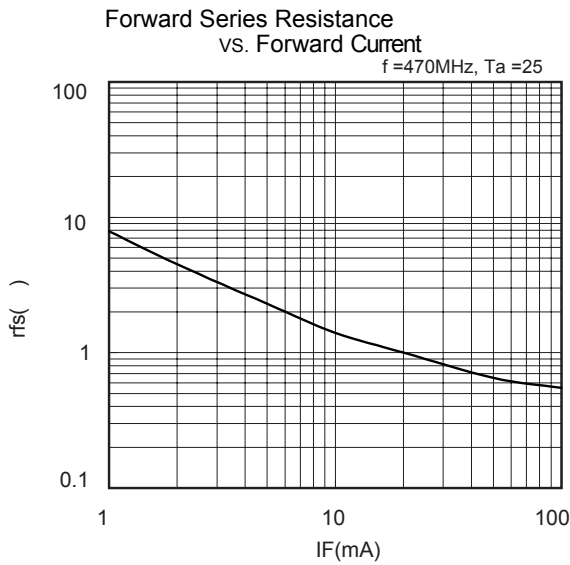
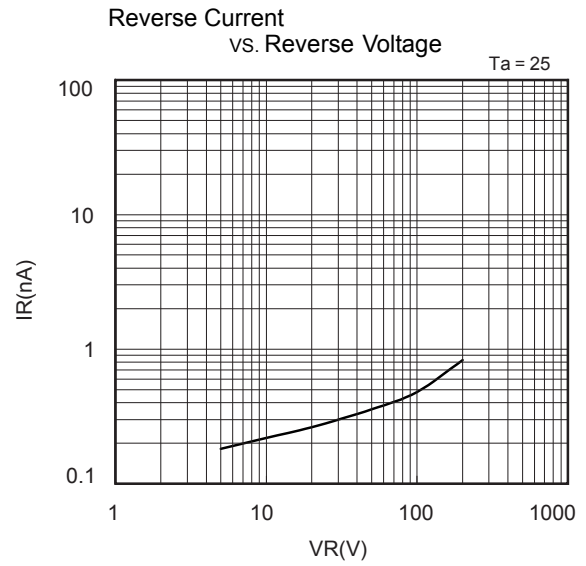
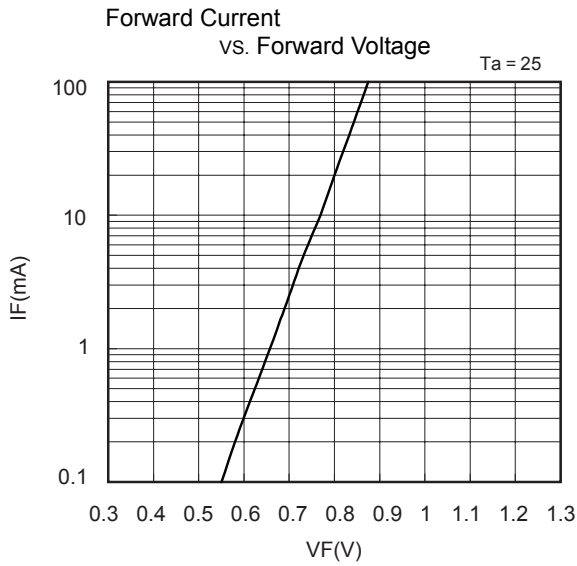
SYMBOL	PARAMETER	CONDITIONS	LIMITS			UNITS
			MIN	TYP	MAX	
IR1	Reverse Current	VR = 50V	-	-	10	μA
IR2		VR = 45V	-	-	0.5	μA
IF	Forward Current	VF = 1.0V	100	-	-	mA
Ct	Diode Capacitance	VR = 0V, f = 100MHz	-	1.6	2.0	pF
rfs	Forward Series Resistance	IF = 50mA, f = 470MHz	-	0.65	0.8	Ω

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### TYPICAL PERFORMANCE CHARACTERISTICS





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