



EK0500-0014 Ver.B



#### ■ FEATURES

- High Power Handling
- Low Capacitance at Zero Bias, Extremely Small Reverse Bias
- Extremely Small Reverse Blas
- 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



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

SYMBOLPARAMETERRATINGSVRMRepetitive Peak Reverse Voltage180VRReverse Voltage180								
	UNITS							
VR Reverse Voltage 180	V							
	V							
IFSM* Forward Surge Current 2	А							
P Power Dissipation 1	W							
Tj Junction Temperature 175	Э°							
Tstg Storage Temperature Range -55 to 175	5°C							

\* t = 5sec

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

SYMBOL	PARAMETER	CONDITIONS	LIMITS			UNITS
			MIN	TYP	MAX	UNITS
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





EK0500-0014 Ver.B











## IMPORTANT NOTICE

Litec Corporation reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes.

Litec Corporation does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold Litec Corporation and all the companies whose products are represented on our website, harmless against all damages.

The products located on our website at www.litec-corp.com are not recommended for use in life support systems where a failure or malfunction of the component may directly threaten life or cause injury without the expressed written approval of Litec Corporation.

# CONTACT

CEL 4590 Patrick Henry Drive, Santa Clara, Ca 95054 TEL: (408) 919-2500 www.cel.com