

# XB15A301



## PIN DIODE

- ◆ Small Insertion Loss
- ◆ High Isolation
- ◆ Small Glass Package

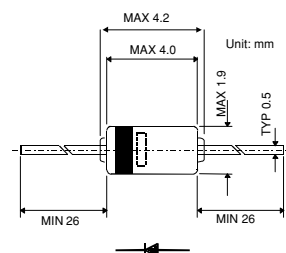
## Applications

- Antenna Switch

## General Description

The XB15A301 PIN diode employs a high reliability glass package that is designed for solid state antenna switches used in commercial two-way radios.

## Dimensions



JEDEC DO-35

## Absolute Maximum Ratings

Ta=25°C

SYMBOL	PARAMETER	RATINGS	UNITS
VRM	Repetitive Peak Reverse Voltage	80	V
IFSM *	Forward Surge Current	2	A
P	Power Dissipation	350	mW
Tj	Junction Temperature	175	°C
Tstg	Storage Temperature	-55 ~ 175	°C

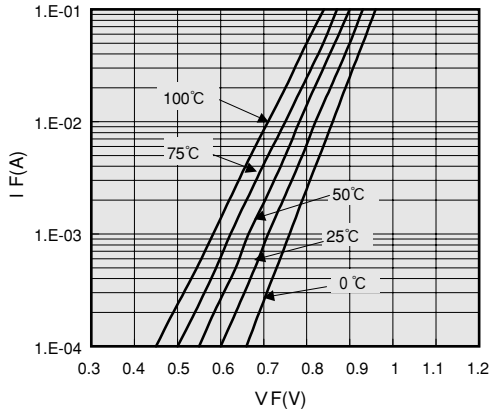
\* t = 1sec

## Electrical Characteristics

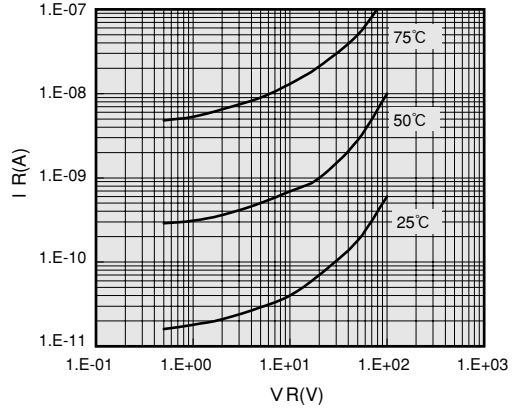
Ta=25°C

SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			UNITS
			MIN	TYP	MAX	
IR	Reverse Current	VR = 60V			150	nA
V(BR)R	Reverse Breakdown Voltage	IR = 10μA	80			V
IF	Forward Current	VF = 1.0V	100			mA
Ct	Diode Capacitance	VR = 0V, f = 1MHz		2.0	3.0	pF
rfs	Forward Series Resistance	IF = 20mA, f = 470MHz		0.8	1.2	Ω
Q	Q	VR = 0V, f = 50MHz	20.0			-
LS	Lead Inductance	Total Lead Length 10mm		2.5		nH

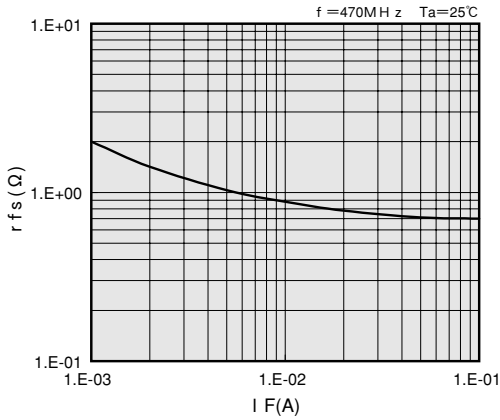
FORWARD CURRENT  
vs. FORWARD VOLTAGE



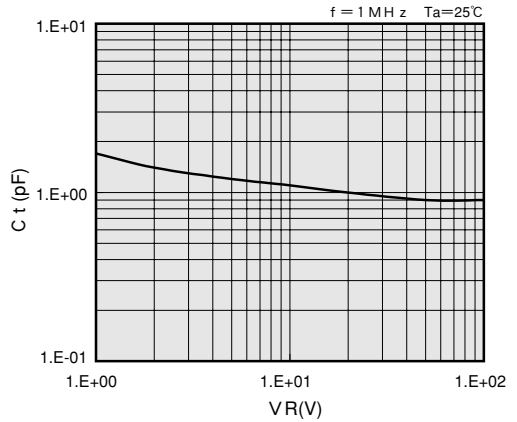
REVERSE CURRENT  
vs. REVERSE VOLTAGE



FORWARD SERIES RESISTANCE  
vs. FORWARD CURRENT



DIODE CAPACITANCE  
vs. REVERSE VOLTAGE



CUT-OFF FREQUENCY  
vs. REVERSE VOLTAGE

