

# XB15A402



## PIN DIODE

Small Insertion Loss  
High Isolation  
High Power Handling

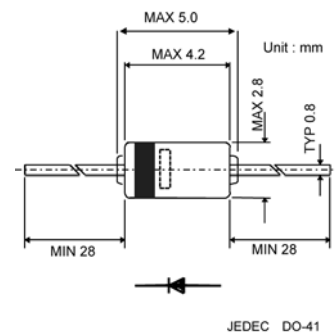
## APPLICATIONS

High Power Antenna Switch  
(25W output two-way radio)

## GENERAL DESCRIPTION

The XB15A402 PIN diode employs a high reliability glass package that is designed for solid state antenna switches used in commercial two-way radios.

## DIMENSIONS



## ABSOLUTE MAXIMUM RATINGS

Ta = 25

PARAMETER	SYMBOL	RATINGS	UNITS
Repetitive Peak Reverse Voltage	VRM	270	V
Forward Surge Current	IFSM *	2	A
Power Dissipation	P	1	W
Junction Temperature	Tj	175	
Storage Temperature Range	Tstg	-55 ~ 100	

\* t = 5sec

## ELECTRICAL CHARACTERISTICS

Ta = 25

PARAMETER	SYMBOL	CONDITIONS	LIMITS			UNITS
			MIN.	TYP.	MAX.	
Reverse Current	IR1	VR = 270V	-	-	10	μA
	IR2	VR = 200V	-	-	150	nA
Forward Current	IF	VF = 1.0V	500	-	-	mA
Diode Capacitance	Ct	VR = 12V, f = 1MHz	-	2.0	3.0	pF
Forward Series Resistance	rfs	IF = 50mA, f = 470MHz	-	0.5	0.7	
Cut-Off Frequency	fc	VR = 12V, f = 50MHz	1.0	-	-	GHz

# TYPICAL PERFORMANCE CHARACTERISTICS

