

XB15A303



PIN DIODE

Small Insertion Loss
High Isolation
Small Glass Package

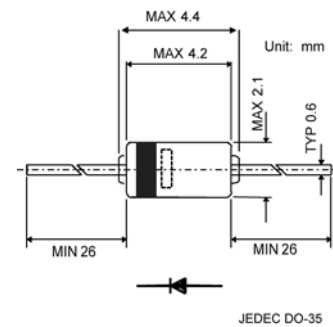
APPLICATIONS

Antenna Switch

GENERAL DESCRIPTION

The XB15A303 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	180	V
Forward Surge Current	IFSM *	2	A
Power Dissipation	P	500	mW
Junction Temperature	Tj	175	
Storage Temperature Range	Tstg	-55 ~ 175	

* t = 5sec

ELECTRICAL CHARACTERISTICS

Ta = 25

PARAMETER	SYMBOL	CONDITIONS	LIMITS			UNITS
			MIN.	TYP.	MAX.	
Reverse Current	IR1	VR = 180V	-	-	10	μA
	IR2	VR = 140V	-	-	150	nA
Forward Current	IF	VF = 1.0V	200	-	-	mA
Diode Capacitance	Ct	VR = 0V, f = 1MHz	-	3.0	4.0	pF
Forward Series Resistance	rfs	IF = 20mA, f = 470MHz	-	0.6	1.0	
Cut-Off Frequency	fc	VR = 3V, f = 50MHz	900	-	-	MHz

TYPICAL PERFORMANCE CHARACTERISTICS

