

- ◆ Long Carrier Lifetime
- ◆ Small Diode Capacitance (0.36pF at VR=0V, f=100MHz)
- ◆ Small Series Order Resistance
- ◆ Highly Surge-proof
- ◆ Small Glass Package

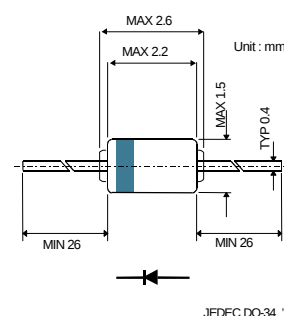
Applications

- VCRs
- Video Disks
- Antenna Switches

General Description

The XB15A105 PIN diode employs a high reliability glass package that is designed for small signal switching.

Dimensions



Absolute Maximum Ratings

Ta=25°C

SYMBOL	PARAMETER	RATINGS	UNITS
VRM	Repetitive Peak Reverse Voltage	30	V
VR	Reverse Voltage	30	V
P	Power Dissipation	200	mW
Tj	Junction Temperature	175	°C
Tstg	Storage Temperature	-55 to 175	°C
IFM	Forward Current	150	mA

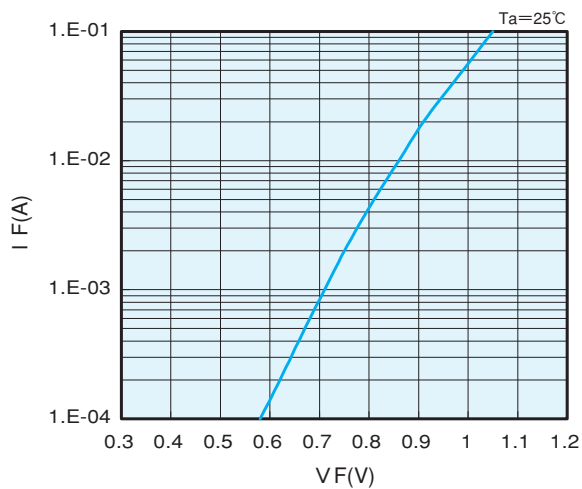
Electrical characteristics

Ta=25°C

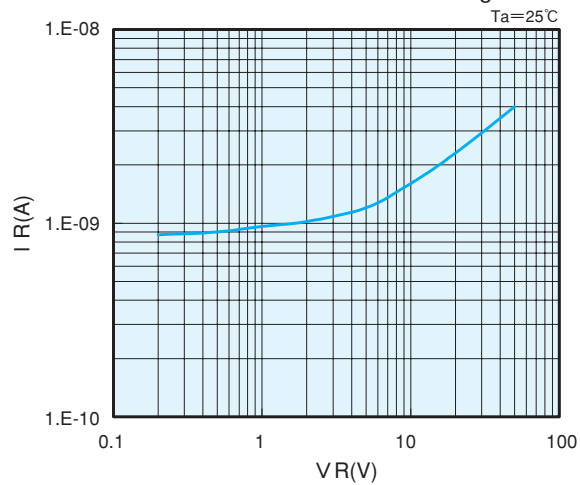
SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			UNITS
			MIN	TYP	MAX	
IR1	Reverse Current	VR = 30V			10	μA
IR2		VR = 28V			0.5	μA
IF	Forward Current	VF = 1.0V	30			mA
Ct	Diode Capacitance	VR = 0V, f = 100MHz		0.36	0.5	pF
rfs1	Forward Series Resistance	IF = 10mA, f = 50MHz		10	20	Ω
rfs2		IF = 10μA, f = 50MHz	1.0	3.0		kΩ

Electrical Characteristics

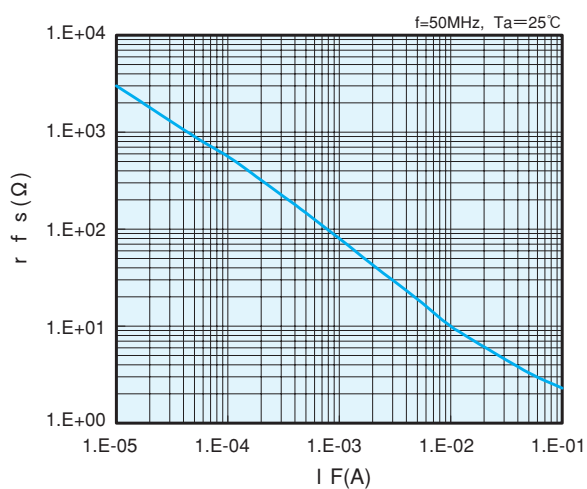
Forward Current vs. Forward Voltage



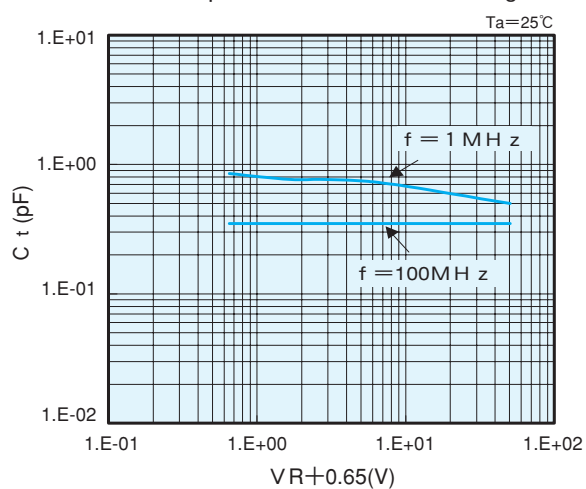
Reverse Current vs. Reverse Voltage



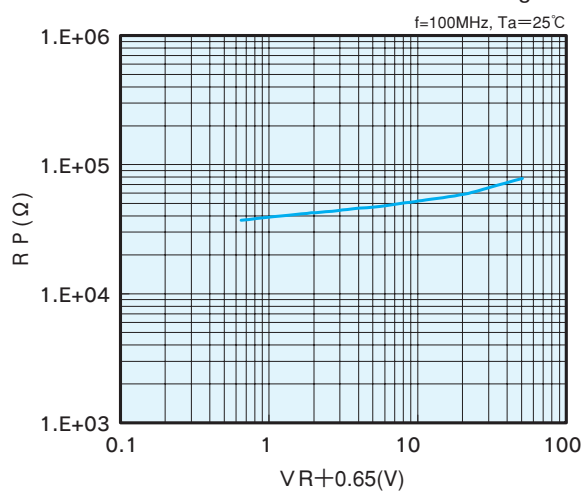
Forward Series Resistance vs. Forward Current



Diode Capacitance vs. Reverse Voltage



Parallel Resistance vs. Reverse Voltage



Ordering Information

WIDTH (mm)	TYPE	MINIMUM ORDER UNIT	ORDERING
26	Taping	2000 pcs./ Ammo Pack Box	XB15A****GT
52	Taping	2000 pcs./ Ammo Pack Box	XB15A****GT
52	Taping Reel	5000 pcs./ Reel	XB15A****GR
52	Bulk	100 pcs./ Bag x 10 Bags	XB15A****GB
12	Embossed tape	1500 pcs./ Reel	XB15A****HR

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 a b c d e f

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
a	Development order (A...)	c	Version
b	Series : 105 204 301 303 308 402 407 709	d	Lead length : 0 : No lead 1 : Short lead (26mm) 2 : Long lead (52mm)
		e	Package type : G : Glass shield H : Ceramic (no lead)
		f	Taping method : B : Bag T : Paper tape R : Embossed tape (no lead)

Note : With the 26mm width, only the XB15A105, XB15A204 and XB15A301 are available in the taping format.
 Please further note that the XB15A105 has a 'Minimum Order Unit' of 5000 pcs./ Box and not 2000.

Taping Specification

Axial Taping

