XB15A204

TOREX

PIN DIODE

◆**Long Carrier Lifetime**
◆**Low Distortion**
◆**Large Dynamic Range**

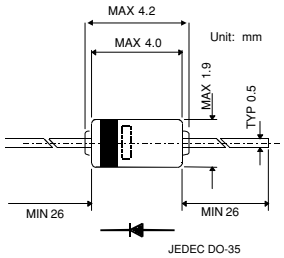
■Applications

●Car Radio RF Attenuators
●Filter Switches
●CATV RF Attenuators

■General Description

The XB15A204 PIN diode employs a high reliability glass package that is designed for RF small signal attenuators in VHF, UHF appliances.

■Dimensions



■Absolute Maximum Ratings

Ta=25 °C

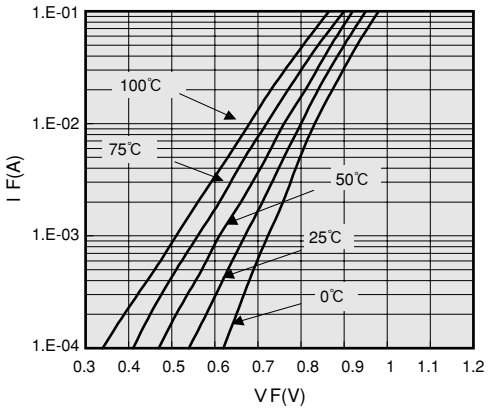
SYMBOL	PARAMETER	RATINGS	UNITS
VRM	Repetitive Peak Reverse Voltage	30	V
VR	Reverse Voltage	28	V
P	Power Dissipation	200	mW
Tj	Junction Temperature	175	°C
Tstg	Storage Temperature	-55 ~ 175	°C

■Electrical Characteristics

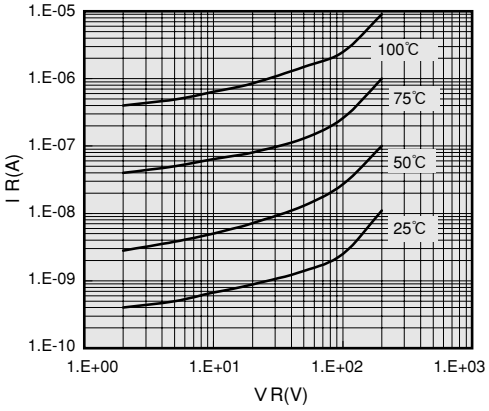
Ta=25°C

SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			UNITS
			MIN	TYP	MAX	
IR1	Reverse Current	VR = 30V			10	μA
IR2		VR = 28V			0.5	μA
VF	Forward Voltage	IF = 100mA			1.0	V
rfs1	Forward Series Resistance	IF = 10mA, f = 50MHz		5.5	10	Ω
rfs2		IF = 10μA, f = 50MHz	1.0	2.0		kΩ
Ct	Diode Capacitance	VR = 15V, f = 1.0MHz		0.7	1.2	pF
τ	Life Time	IF = 10mA		2.1		μS
ts	Storage Time	IF = 10mA, I R = 10mA	0.6	1.5		μS

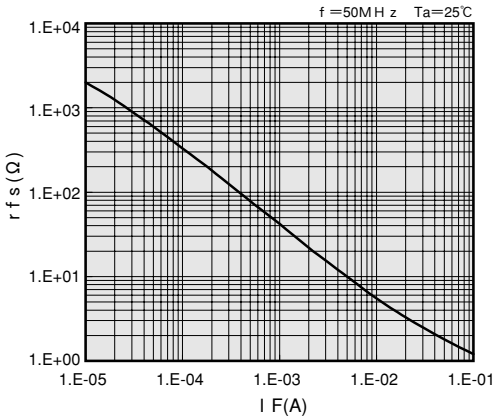
FORWARD CURRENT
vs. FORWARD VOLTAGE



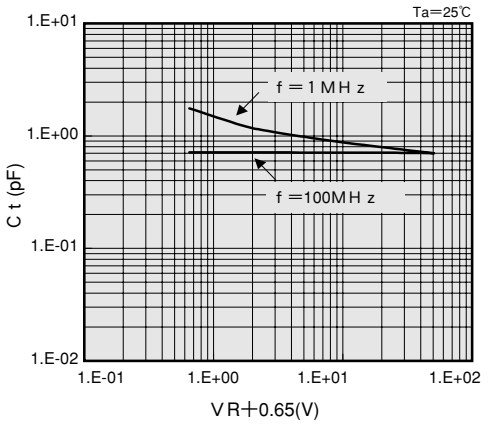
REVERSE CURRENT
vs. REVERSE VOLTAGE



FORWARD SERIES RESISTANCE
vs. FORWARD CURRENT



DIODE CAPACITANCE
vs. REVERSE VOLTAGE



PARALLEL RESISTANCE
vs. REVERSE VOLTAGE