XB15A709

TOREX

PIN DIODE

- ◆High Power Handling
- ◆Small Capacitance at Zero Bias, Extremely Small Reverse Bias
- ◆Small Series Order Resistance
- ◆Small Insertion Loss, High Isolation
- ◆Surface Mount Type (for reflow assembly)

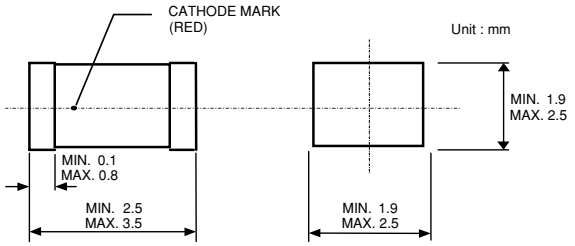
■Applications

●High Power Antenna Switch
(10W output two-way radio)

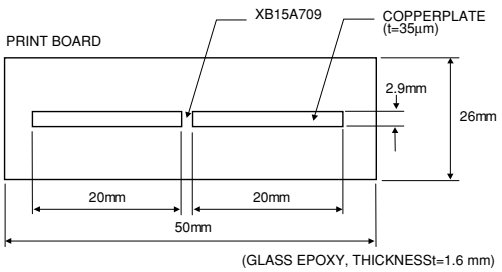
■General Description

The XB15A709A0HR PIN diode is designed for solid state antenna switching applications in mobile radios.
The XB15A709A0HR employs a square outline which makes it suitable for reflow assembly on surface mounting.

■Dimensions



POWER DISSIPATION TEST BOARD



■Absolute Maximum Ratings

Ta=25 °C

SYMBOL	PARAMETER	RATINGS	UNITS
VR	Reverse Voltage	50	V
P	Power Dissipation	1	W
	(surface contact)*	*Glass Epoxy, t=1.6mm	
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	
IR	Reverse Current	VR = 50V			10	μA
VF	Forward Voltage	IF = 50mA			1.0	V
Ct	Diode Capacitance	VR = 40V, f = 1MHz			1.2	pF
rfs	Forward Series Resistance	IF = 50mA, f = 100MHz		0.5	0.75	Ω
RP	Parallel Resistance	VR = 0V, f = 100MHz	1.0	3.0		kΩ