

XBP06V4E2HR-G

Transient Voltage Suppressor (TVS)

GENERAL DESCRIPTION

Two elements in USP-3 package (Anode Common)
High ESD

ABSOLUTE MAXIMUM RATINGS

Ta=25°C

PARAMETER	SYMBOL	RATINGS	UNITS
Peak Pulse Power ^(*1)	Ppk	70	W
Power Dissipation	Pd	120	mW
		1000 ^(*2)	
Junction Temperature	Tj	150	°C
Storage Temperature Range	Tstg	-55~+150	°C
ESD Durability ^{(*3)(*4)}	Vpp	30	kV
Contact Discharge	Vpp	30	kV

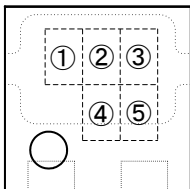
(*1): tp=8/20 μs

(*2): This is a reference data taken by using the test board.

(*3): Test Condition IEC61000-4-2 Standard

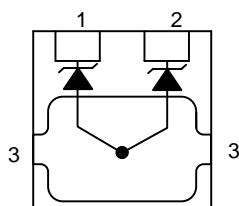
(*4): Criterion: No damage to device elements

MARKING RULE



①②③ : BP1(Product Number)
④⑤ : Lot Number

PIN CONFIGURATION



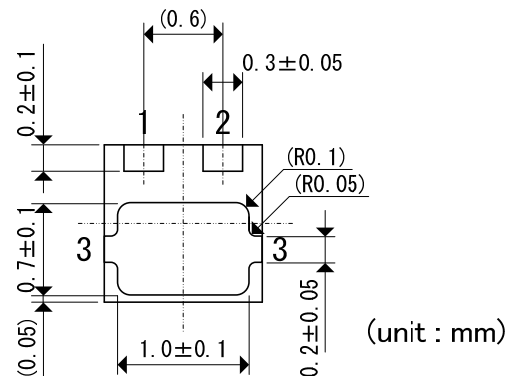
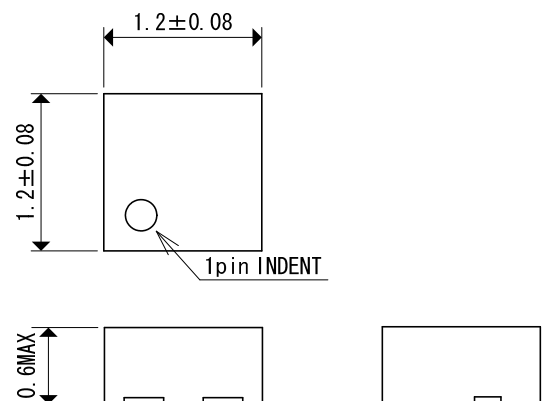
BOTTOM VIEW

1. Cathode
2. Cathode
3. Anode

APPLICATIONS

ESD protection

PACKAGING INFORMATION



USP-3 Package

PRODUCT NAME

PRODUCT NAME	PACKAGE	ORDER UNIT
XBP06V4E2HR-G	USP-3	3,000/Reel

* The "G" suffix indicates that the products are Halogen and Antimony free as well as being fully RoHS compliant.

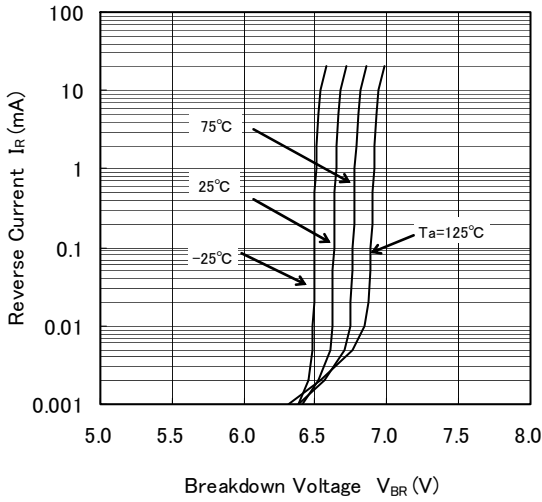
ELECTRICAL CHARACTERISTICS

Ta=25°C

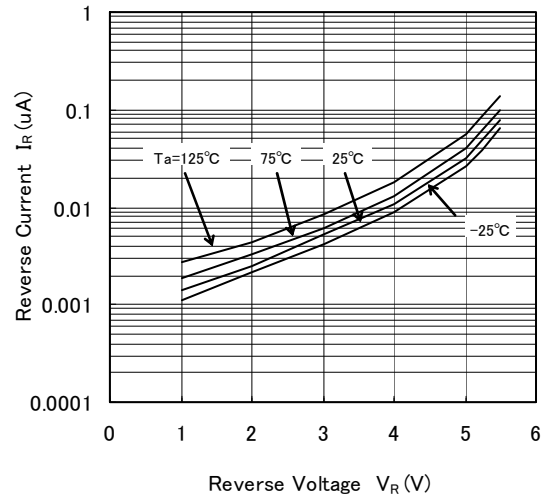
PARAMETER	SYMBOL	TEST CONDITION	LIMITS			UNITS
			MIN.	TYP.	MAX.	
Breakdown Voltage	V _{BR}	I _R =5mA	6.4	6.8	7.2	V
Leakage Current	I _{RM}	V _{RM} =5V	-	-	1.0	μA
Forward Voltage	V _F	I _F =10mA	-	-	1.25	V
Inter-Terminal Capacity	C _t	V _R =0V, f=1MHz	-	40	-	pF

TYPICAL PERFORMANCE CHARACTERISTICS

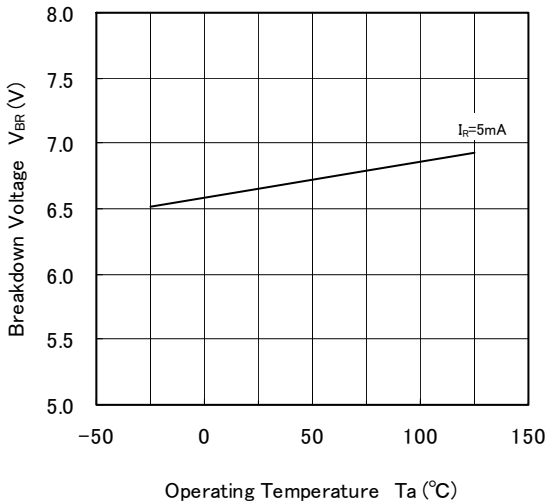
(1) Reverse Current vs. Breakdown Voltage



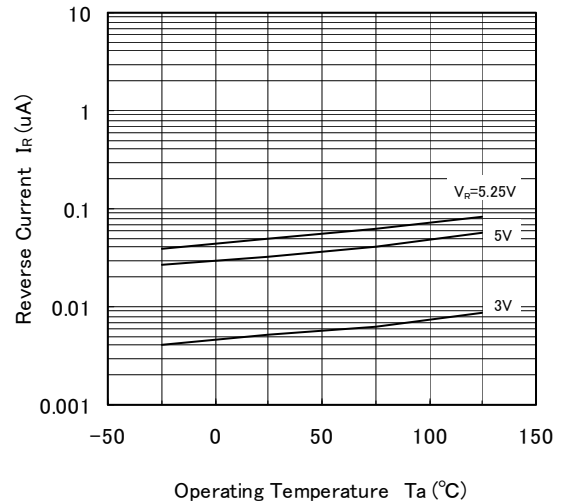
(2) Reverse Current vs. Reverse Voltage



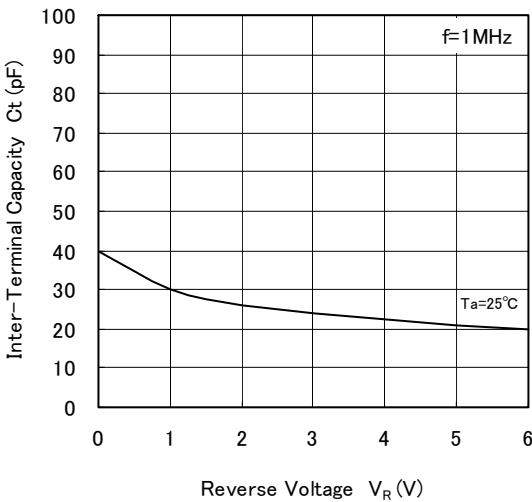
(3) Breakdown Voltage vs. Operating Temperature



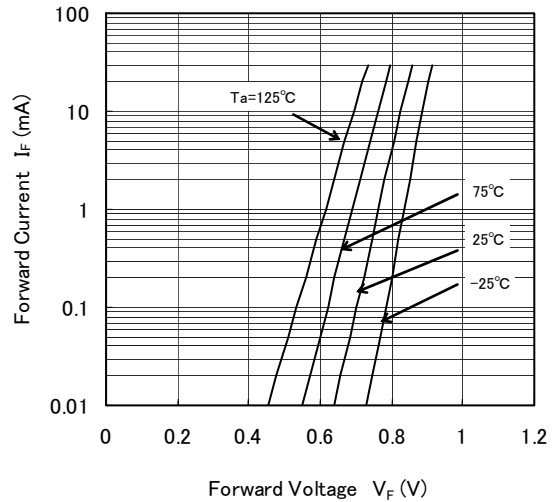
(4) Reverse Current vs. Operating Temperature



(5) Inter-Terminal Capacity vs. Reverse Voltage



(6) Forward Current vs. Forward Voltage



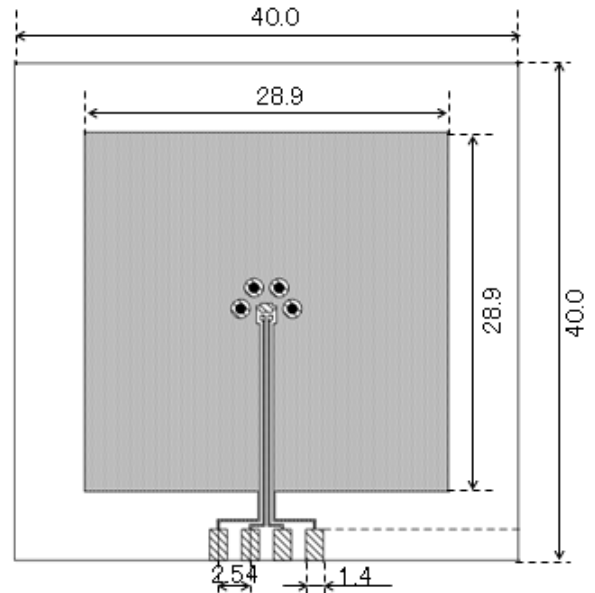
■ PACKAGING INFORMATION

● USP-3 Power Dissipation

Power dissipation data for the USP-3 is shown in this page. The value of power dissipation varies with the mount board conditions. Please use this data as one of reference data taken in the described condition.

1. Measurement Condition (Reference data)

- Condition: Mount on a board
- Ambient: Natural convection
- Soldering: Lead (Pb) free
- Board: Dimensions 40 x 40 mm (1600 mm² in one side)
Copper (Cu) traces occupy 50% of the board area in top and back faces.
Package heat-sink is tied to the copper traces.
- Material: Glass Epoxy (FR-4)
- Thickness: 1.6 mm
- Through-hole: 4 x 0.8 Diameter

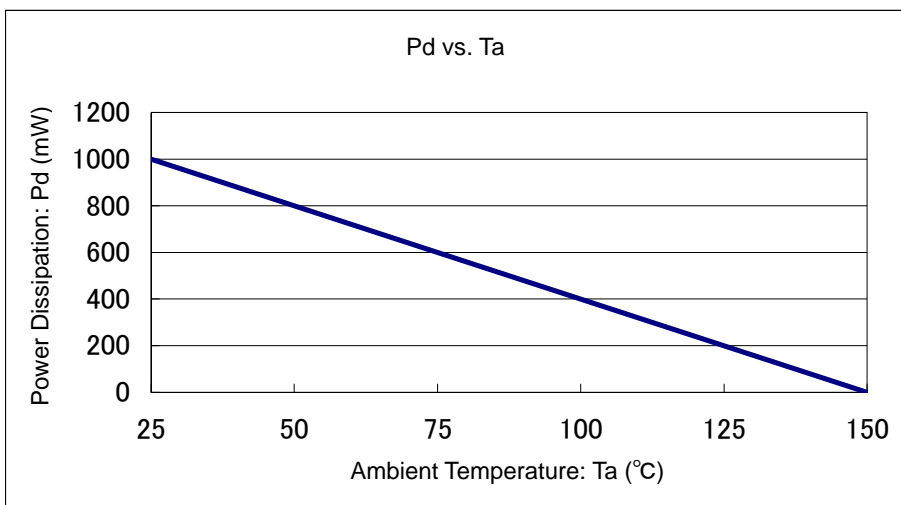


Evaluation Board (Unit: mm)

2. Power Dissipation vs. Ambient temperature

Board Mount (T_j max = 150°C)

Ambient Temperature (°C)	Power Dissipation Pd (mW)	Thermal Resistance (°C/W)
25	1000	125.00
150	0	



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