XBP06V4E4GR-G

ETR29003-006

Transient Voltage Suppressor (TVS)

■GENERAL DESCRIPTION

Four elements in USP-4 package (Anode Common)
High ESD

■APPLICATIONS

ESD protection

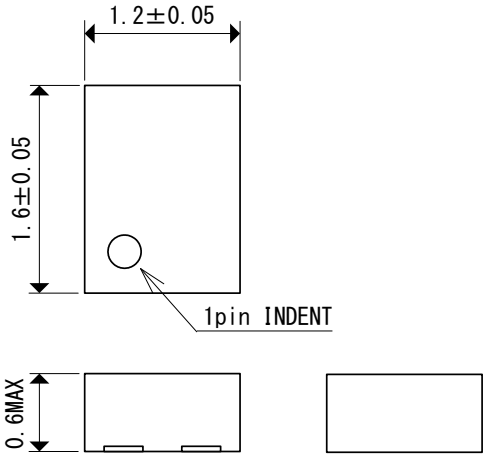
■ABSOLUTE MAXIMUM RATINGS

Ta=25℃

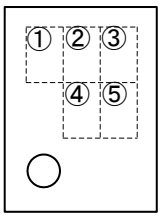
PARAMETER	SYMBOL	RATINGS	UNITS
Peak Pulse Power (*1)	Ppk	70	W
Power Dissipation	Pd	120	mW
		1000 (*2)	
Junction Temperature	Tj	150	℃
Storage Temperature	Tstg	-55～150	℃
ESD Durability (*3)(*4) Contact Discharge	Vpp	30	kV

(*1): tp=8/20μs
(*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

■PACKAGING INFORMATION

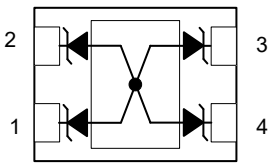


■MARKING RULE



①②③：BP2(Product Number)
④⑤：Lot Number

■PIN CONFIGURATION



BOTTOM VIEW

1. Cathode
2. Cathode
3. Cathode
4. Cathode
TAB. Anode

■PRODUCT NAME

PRODUCT NAME	PACKAGE	ORDER UNIT
XBP06V4E4GR-G*	USP-4	3,000/Reel

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

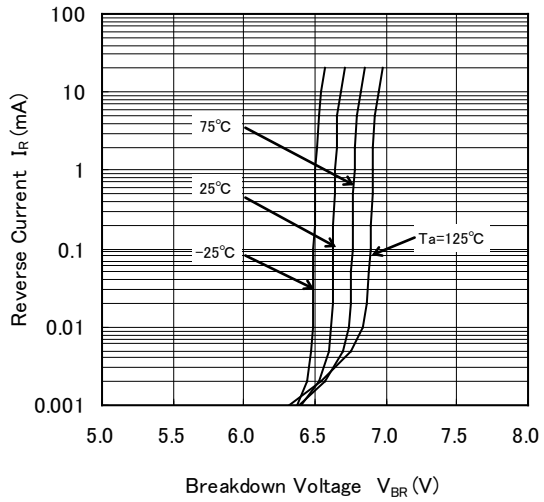
■ ELECTRICAL CHARACTERISTICS

Ta=25℃

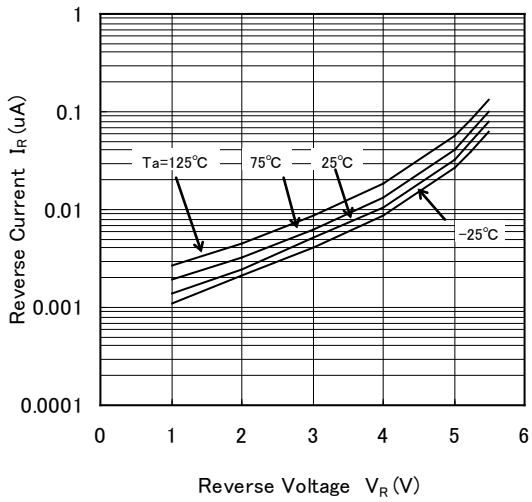
PARAMETER	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNITS
Breakdown Voltage	V_{BR}	I_R =5mA	6.4	6.8	7.2	V
Leakage Current	I_{RM}	V_{RM}=5V	-	-	1.0	μA
Forward Voltage	V_F	I_F=10mA	-	-	1.25	V
Inter-Terminal Capacity	C_t	V_R=0V, f=1MHz	-	40	-	pF

■TYPICAL PERFORMANCE CHARACTERISTICS

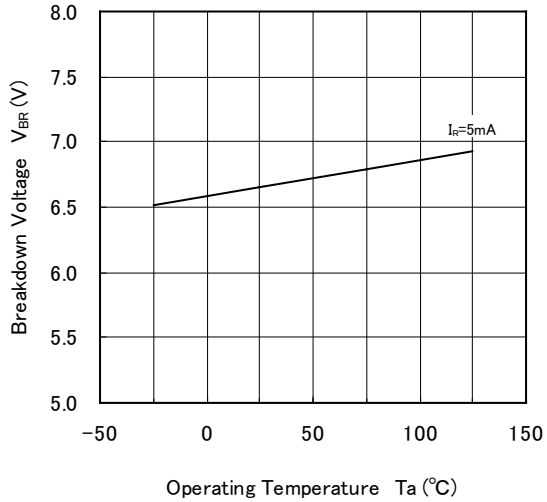
(1) Reverse Current vs. Breakdown Voltage



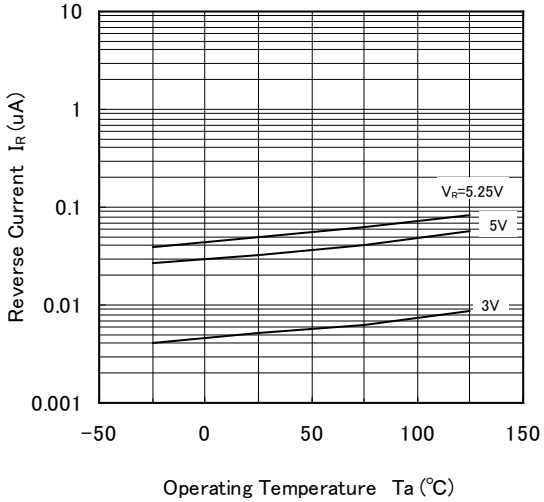
(2) Reverse Current vs. Reverse Voltage



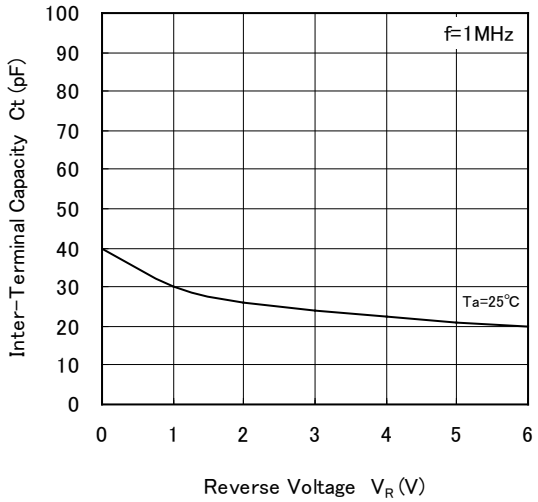
(3) Breakdown Voltage vs. Operating Temperature



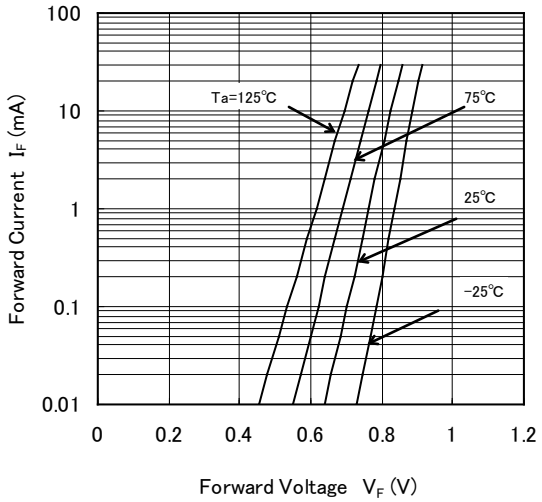
(4) Reverse Current vs. Operating Temperature



(5) Inter-Terminal Capacity vs. Reverse Voltage



(6) Forward Current vs. Forward Voltage



■PACKAGING INFORMATION

For the latest package information go to, www.torexsemi.com/technical-support/packages

PACKAGE	OUTLINE / LAND PATTERN	THERMAL CHARACTERISTICS
USP-4	USP-4 PKG	USP-4 Power Dissipation

1. The product and product specifications contained herein are subject to change without notice to improve performance characteristics. Consult us, or our representatives before use, to confirm that the information in this datasheet is up to date.

2. The information in this datasheet is intended to illustrate the operation and characteristics of our products. We neither make warranties or representations with respect to the accuracy or completeness of the information contained in this datasheet nor grant any license to any intellectual property rights of ours or any third party concerning with the information in this datasheet.

3. Applicable export control laws and regulations should be complied and the procedures required by such laws and regulations should also be followed, when the product or any information contained in this datasheet is exported.

4. The product is neither intended nor warranted for use in equipment of systems which require extremely high levels of quality and/or reliability and/or a malfunction or failure which may cause loss of human life, bodily injury, serious property damage including but not limited to devices or equipment used in 1) nuclear facilities, 2) aerospace industry, 3) medical facilities, 4) automobile industry and other transportation industry and 5) safety devices and safety equipment to control combustions and explosions. Do not use the product for the above use unless agreed by us in writing in advance.

5. Although we make continuous efforts to improve the quality and reliability of our products; nevertheless Semiconductors are likely to fail with a certain probability. So in order to prevent personal injury and/or property damage resulting from such failure, customers are required to incorporate adequate safety measures in their designs, such as system fail safes, redundancy and fire prevention features.

6. Our products are not designed to be Radiation-resistant.

7. Please use the product listed in this datasheet within the specified ranges.

8. We assume no responsibility for damage or loss due to abnormal use.

9. All rights reserved. No part of this datasheet may be copied or reproduced unless agreed by Torex Semiconductor Ltd in writing in advance.

TOREX SEMICONDUCTOR LTD.