XBP15SRV05W-G



ETR29020-001

Low Capacitance TVS Diode Array

■FEATURES

Terminal Capacitance : 1.2pF (Line-to-GND)

ESD Protection : 10kV Contact (IEC61000-4-2) **Environmentally Friendly** : EU RoHS Compliant, Pb Free

APPLICATIONS

- ●USB 2.0. Firewire
- Video Graphics Card
- ●DVI
- ●Ethernet 10/100/1000

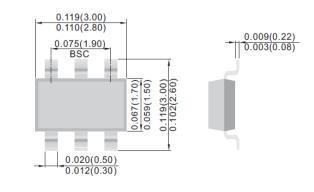
■PRODUCT NAME

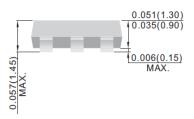
PRODUCT NAME	PACKAGE	ORDER UNIT
XBP15SRV05W-G *	SOT-26P	3,000pcs/Reel

^{*} The "-G" suffix denotes Halogen and Antimony free as well as being fully EU RoHS compliant.

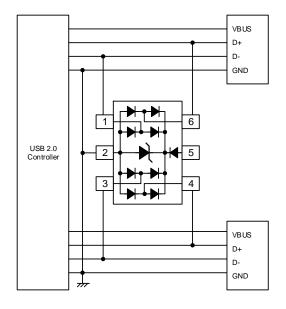
PACKAGING INFORMATION ●SOT-26P Unit: inch (mm)







■APPLICATION CIRCUIT



■ABSOLUTE MAXIMUM RATINGS

Ta=25°C

PARAMETER	SYMBOL	RATINGS	UNIT
VDD Pin (Pin 5) Voltage	V_{DD}	-0.3 ~ +6.0	V
I/O Pin (Pin 1,3,4,6) Voltage	V _{I/O}	-0.3 ~ V _{DD} +0.3	V
Junction Temperature	Tj	125	°C
Storage Temperature	Tstg	-55 to +150	°C
IEC61000-4-2 (ESD) Air	V_{ESD_A}	±15	kV
IEC61000-4-2 (ESD) Contact	V_{ESD_C}	±10	kV

Each voltage rating is based on Pin2 (GND) voltage.

XBP15SRV05W-G

■ELECTRICAL CHARACTERISTICS

Ta=25°C

DADAMETED	CVMPOL	TECT CONDITIONS	LIMITS			LINUT
PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Stand-Off Voltage	V_{RWM}		-	-	5	V
Breakdown Voltage	V_{BR}	I _R =1mA, Pin5 to Pin2	6	-	-	V
Leakage Current	I_R	V _R =5V, Pin5 to Pin2	-	-	5	μA
Clamping Voltage (8/20 µs)	Vc	I _{PP} =3A, I/O pin to Pin2	-	-	10	V
Tarminal Canacitanas	C_{t}	V _R =0V, f=1MHz Between I/O pin to Pin2	-	1.0	1.2	pF
Terminal Capacitance	Ct	V _R =0V, f=1MHz Between I/O pins	-	0.5	0.6	pF

■NOTES ON USE

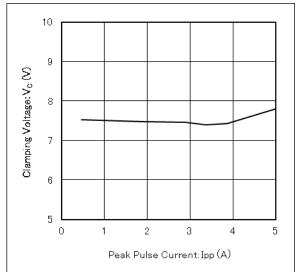
- 1. Please use this IC within the absolute maximum ratings.

 Even within the ratings, in case of high load use continuously such as high temperature, high voltage, high current and thermal stress may cause reliability degradation of the IC.
- 2. Torex places an importance on improving our products and their reliability.

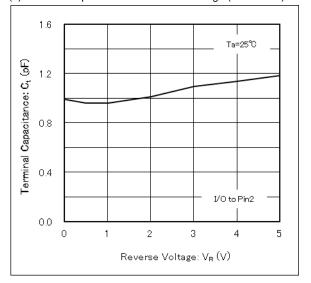
 We request that users incorporate fail-safe designs and post-aging protection treatment when using Torex products in their systems.

■TYPICAL PERFORMANCE CHARACTERISTICS

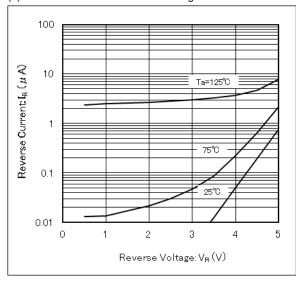
(1) Clamping Voltage vs. Peak Pulse Current



(2) Terminal Capacitance vs. Reverse Voltage (I/O to Pin2)



(3) Reverse Current vs. Reverse Voltage

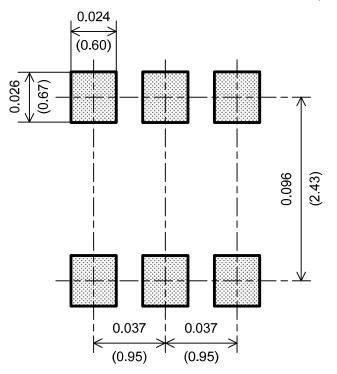


XBP15SRV05W-G

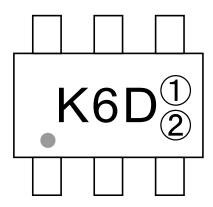
■ REFERENCE PATTERN LAYOUT

●SOT-26P

Unit: inch (mm)



■MARKING

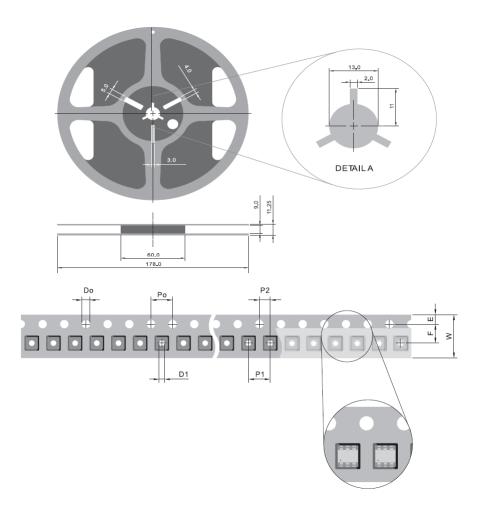


(1)2 : Control Number

■TAPING SPECIFICATIONS

●SOT-26P

Unit : mm



S	YMBOL	mm	
D	0	1.55 ± 0.05	
D	1	1.00	+ 0.25 - 0.10
E		1.75 ± 0.10	
F		3.50 ± 0.05	
P	0	4.00 ± 0.10	
Р	1	4.00 ± 0.10	
Р	2	2.00 ± 0.05	
W	/	8.00	+ 0.30 - 0.15

equipment thereof.)

- The products 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. We assume no responsibility for any infringement of patents, patent rights, or other rights arising from the use of any information and circuitry in this datasheet.
- 3. Please ensure suitable shipping controls (including fail-safe designs and aging protection) are in force for equipment employing products listed in this datasheet.
- 4. The products in this datasheet are not developed, designed, or approved for use with such equipment whose failure of malfunction can be reasonably expected to directly endanger the life of, or cause significant injury to, the user.
 (e.g. Atomic energy; aerospace; transport; combustion and associated safety
- Please use the products listed in this datasheet within the specified ranges.
 Should you wish to use the products under conditions exceeding the specifications, please consult us or our representatives.
- 6. We assume no responsibility for damage or loss due to abnormal use.
- 7. All rights reserved. No part of this datasheet may be copied or reproduced without the prior permission of TOREX SEMICONDUCTOR LTD.

TOREX SEMICONDUCTOR LTD.

单击下面可查看定价,库存,交付和生命周期等信息

>>Torex Semiconductor(特瑞仕)