

XBP141P-G

Low Capacitance TVS Diode Array

ETR29025-001

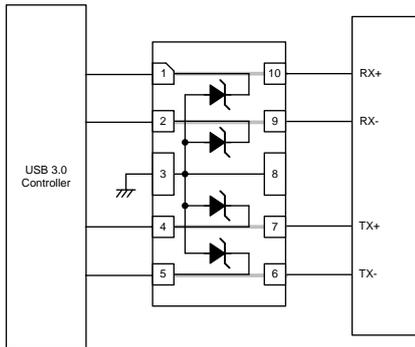
FEATURES

Terminal Capacitance	: 0.40pF (Line-to-GND)
ESD Protection	: 15kV Contact (IEC61000-4-2)
Environmentally Friendly	: EU RoHS Compliant, Pb Free

APPLICATIONS

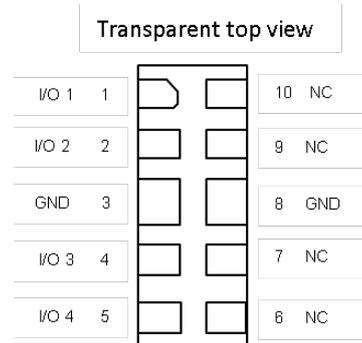
- USB 3.0
- DVI
- Set Top Box

APPLICATION CIRCUIT



PIN CONFIGURATION

- DFN2510-10A



PRODUCT CLASSIFICATION

PRODUCT NAME	PACKAGE	ORDER UNIT
XBP141P-G *	DFN2510-10A	5,000 pcs/ Reel

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

ABSOLUTE MAXIMUM RATINGS

Ta=25°C

PARAMETER	SYMBOL	RATINGS	UNIT
Junction Temperature	T _j	125	°C
Storage Temperature	T _{stg}	-55~ +150	°C
IEC61000-4-2 (ESD) Air	V _{ESD_A}	±15	kV
IEC61000-4-2 (ESD) Contact	V _{ESD_C}	±15	kV

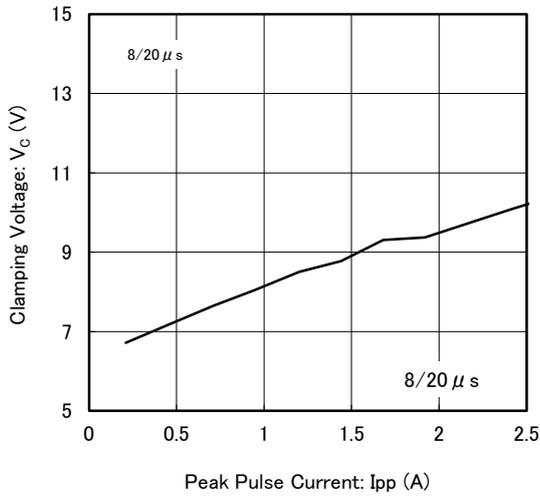
ELECTRICAL CHARACTERISTICS

Ta=25°C

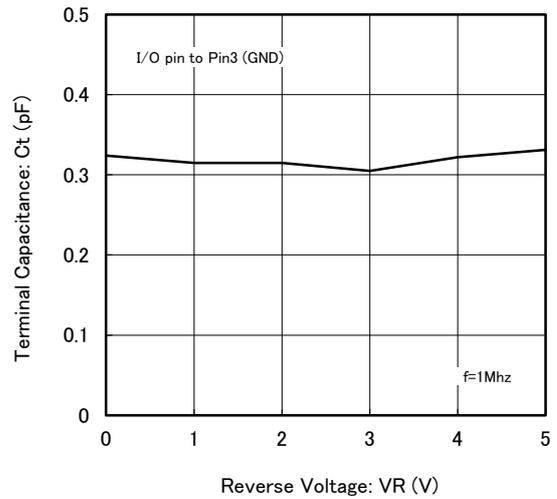
PARAMETER	SYMBOL	TEST CONDITIONS	LIMITS			UNIT
			MIN.	TYP.	MAX.	
Stand-Off Voltage	V _{RWM}		-	-	5	V
Breakdown Voltage	V _{BR}	I _R =1mA, I/O pin to Pin3	5.5	-	-	V
Leakage Current	I _R	V _R =5V, I/O pin to Pin3	-	-	0.1	μA
Clamping Voltage (8/20 μs)	V _C	I _{PP} =1A, I/O pin to Pin3	-	-	10	V
Terminal Capacitance	C _i	V _R =2.5V, f=1MHz Between I/O pin to Pin3	-	0.30	0.40	pF
	C _t	V _R =2.5V, f=1MHz Between I/O pins	-	0.20	-	pF

TYPICAL PERFORMANCE CHARACTERISTICS

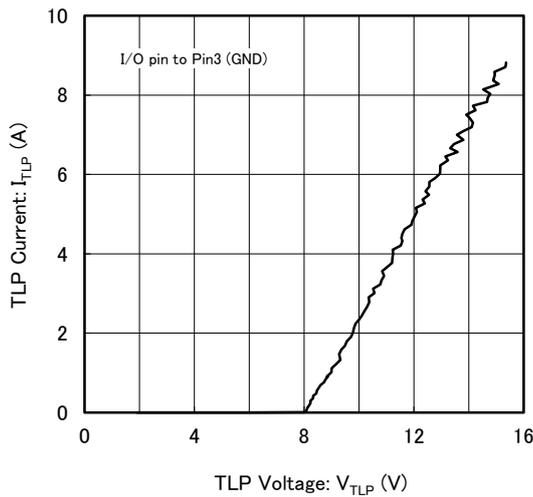
(1) Clamping Voltage vs. Peak Pulse Current



(2) Terminal Capacitance vs. Voltage



(3) Transmission Line Pulse (TLP) Measurement



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.

■ PACKAGING INFORMATION

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

PACKAGE	OUTLINE / LAND PATTERN
DFN2510-10A	DFN2510-10A PKG

■ MARKING



①② : Control Number

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