

Features

- ◆ 70 Watts Peak Pulse Power (8/20 μ s)
- ◆ Protects two or four I/O lines
- ◆ Low capacitance: 0.3pF typical (I/O to I/O)
- ◆ Low operating voltage: 5.5V
- ◆ RoHS Compliant
- ◆ IEC61000-4-2 (ESD) \pm 20kV (air), \pm 15kV (contact)
- ◆ IEC61000-4-4 (EFT) 40A (5/50ns)
- ◆ IEC61000-4-5 (Lightning) 5A(8/20 μ s)

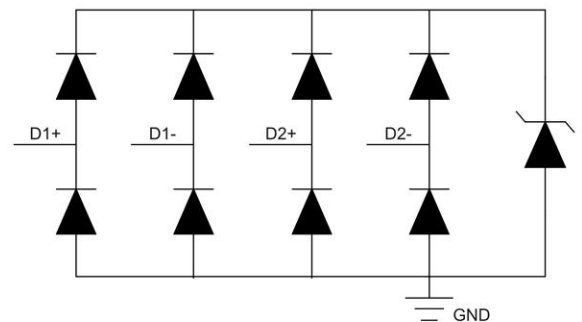
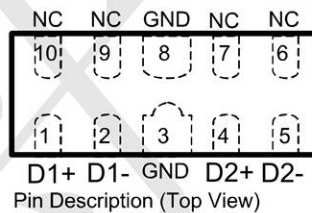
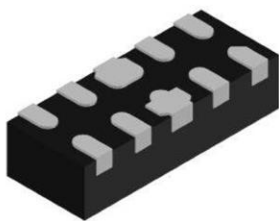
Mechanical Characteristics

- ◆ Package: uSON-10
- ◆ Ultra low leakage: nA level
- ◆ Case Material: "Green" Molding Compound.
- ◆ UL Flammability Classification Rating 94V-0
- ◆ Moisture Sensitivity: Level 3 per J-STD-020
- ◆ Terminal Connections: See Diagram Below
- ◆ Shipping Qty :3000pcs/7Inch Tape & Reel

Applications

- ◆ High Definition Multimedia Interface (HDMI)
- ◆ Digital Visual Interface (DVI)
- ◆ Unified Display Interface (UDI)
- ◆ MDDI Ports
- ◆ PCI Express
- ◆ Serial ATA

Dimensions and Pin Configuration



Marking: xyBLG
xy=Date code

Absolute Maximum Ratings (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20μs)	Ppk	70	W
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	VESD	± 20 ± 15	kV
Operating Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	Tstg	-55 to +150	°C

Electrical Characteristics (TA=25°C unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse Working Voltage	VRWM			5.5	V	Any I/O pin to ground
Breakdown Voltage	VBR	6.4	7.5	9.2	V	IT = 1mA, any I/O pin to ground
Reverse Leakage Current	IR		0.01	0.05	μA	VRWM = 5V, any I/O pin to ground
Clamping Voltage	VC			10	V	I _{PP} = 1 A (8 x 20μs pulse), any I/O pin to ground
Clamping Voltage	VC			13	V	I _{PP} = 5 A (8 x 20μs pulse), any I/O pin to ground
Junction Capacitance	CJ		0.6	0.8	pF	VR = 0V, f = 1MHz, any I/O pin to ground
Junction Capacitance	CJ		0.3		pF	VR = 0V, f = 1MHz, between I/O pins

Characteristic Curves

Fig1. 8/20 μ s Pulse Waveform

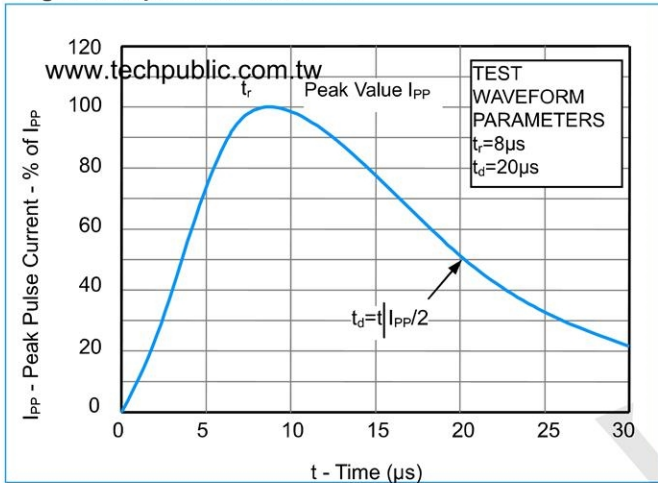


Fig2. ESD Pulse Waveform (according to IEC 61000-4-2)

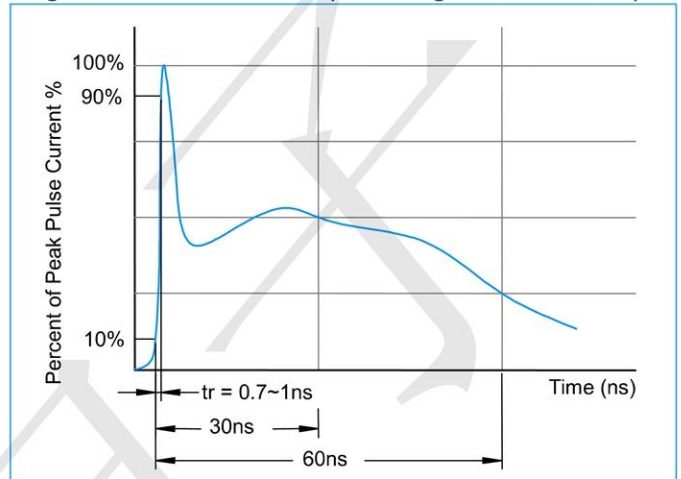
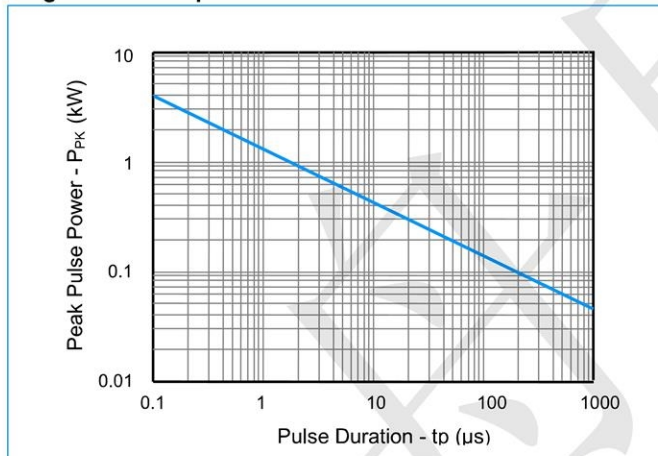
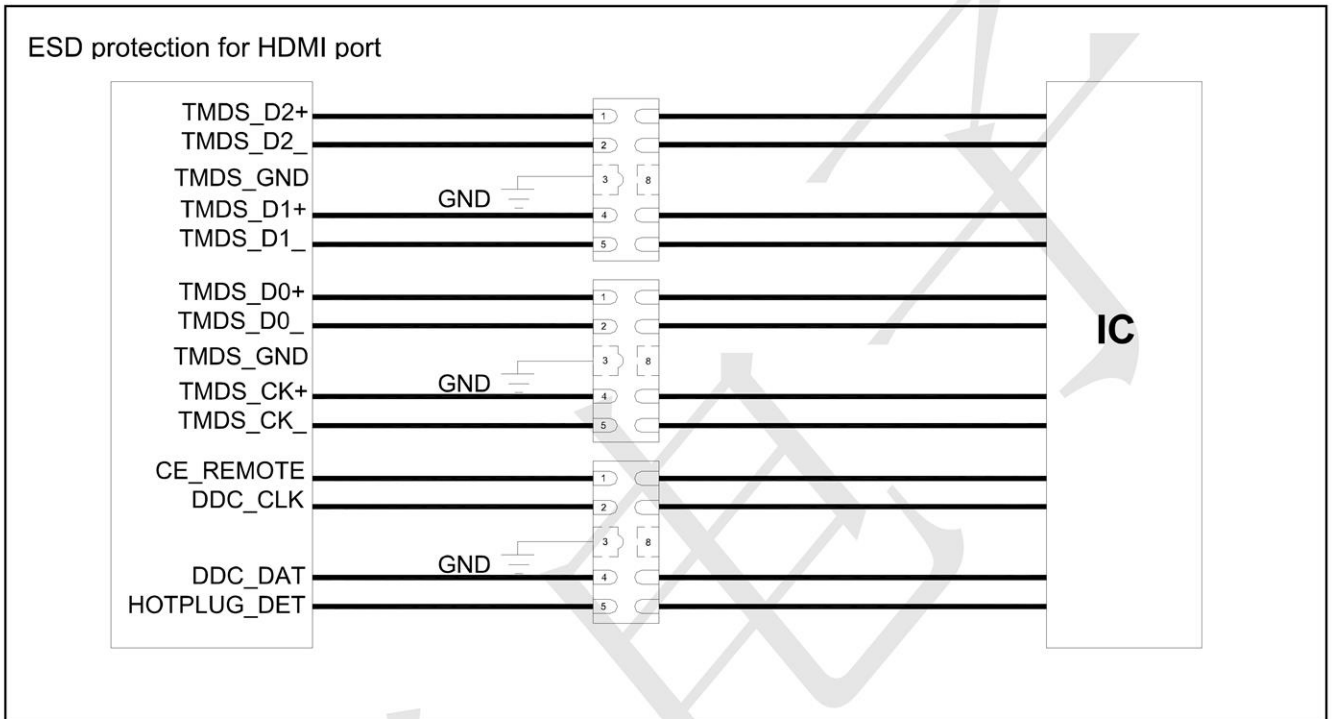


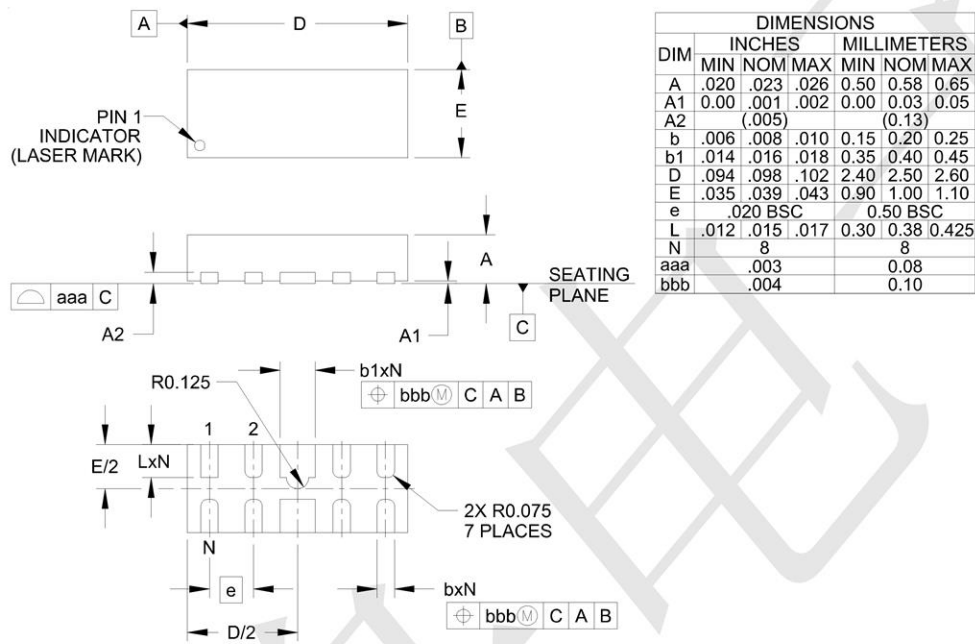
Fig3. Non - Repetitive Peak Pulse Power vs. Pulse Time



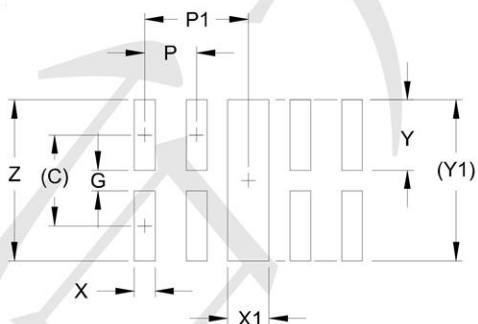
Application Information



Outline Drawing - uSON-10



Land Pattern - uSON-10



DIM	DIMENSIONS	
	INCHES	MILLIMETERS
C	(.034)	(0.875)
G	.008	0.20
P	.020	0.50
P1	.039	1.00
X	.008	0.20
X1	.016	0.40
Y	.027	0.675
Y1	(.061)	(1.55)
Z	.061	1.55

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