MSKSEMI 美森科













ESD

TVS

TSS -

MOV

GDT

PLED

TPD1E10B06DPYR-MS

Product specification





Features

- 80Watts peak pulse power (tp = 8/20µs)
- Transient protection for high speed data lines to IEC 61000-4-2 (ESD) ± (air), ± (contact)
 IEC 61000-4-4 (EFT) 40A (5/50ns)
- Working voltages : 5V
- Protects One Power or I/O Port
- Low operating and clamping voltages
- Solid-state silicon avalanche technology

Applications

- Notebooks, Desktops, Servers and Video Graphics Cards
- USB Power & Data Line Protection
- Monitors and Flat Panel Displays
- I²C Bus Protection
- Portable Instrumentation
- Set Top Box

Reference News

PACKAGE OUTLINE	Pin Configuration	Marking
		B*
X1SON-2		



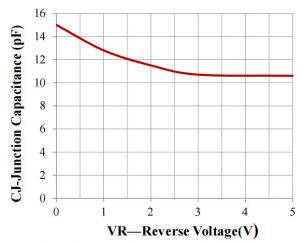
Maximum Rating @ Ta=25C unless otherwise specified

Symbol	Parameter	Ratings	Units
РРК	Peak Pulse Power (tp = 8/20µs)	80	Watts
TL	Lead Soldering Temperature	260(10sec.)	$^{\circ}$
TJ	Operating Temperature	-55 to + 125	${\mathbb C}$
Тѕтс	Storage Temperature	-55 to + 150	$^{\circ}\! \mathbb{C}$

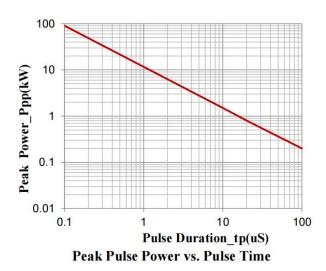
Electrical Characteristics@ Ta=25C unless otherwise

	VRWM @ IR		VBR@ ImA	Vc@ 1	Vc@ IPP		Cl
Parameter	V	Α	V	V	V	Α	F
		MAX	MIN	MAX	MAX		TYP
TPD1E10B06DPYR-MS	5	1	5.8	11.8	15	5	12

TypicalCharacteristics@Ta=25°Cunlessotherwisespecified

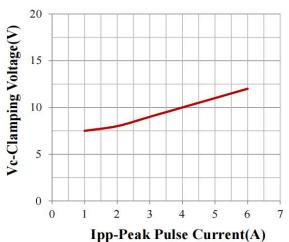


Junction Capacitance vs. Reverse Voltage

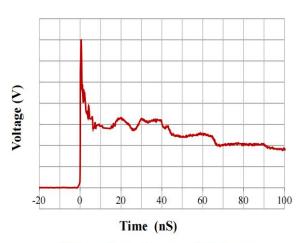


% of Rated Power 20 0 0 50 75 100 150 Ambient Temperature Ta(°C)

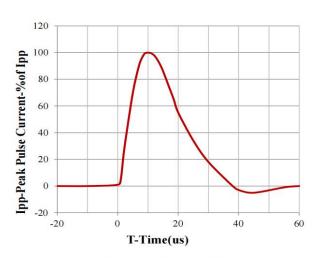
Power Derating Curve



Clamping Voltage vs. Peak Pulse Current



IEC61000-4-2 Pulse Waveform



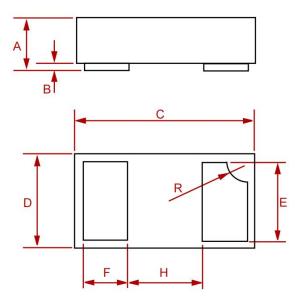
8 X 20us Pulse Waveform

120

100

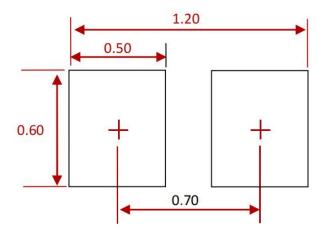


PACKAGE MECHANICAL DATA



Dim	Inches		Millimeters		
Dim	MIN	MAX	MIN	MAX	
Α	0.0125	0.02	0.32	0.52	
В	0.000	0.002	0.00	0.05	
С	0.037	0.043	0.95	1.080	
D	0.022	0.027	0.55	0.680	
E	0.016	0.024	0.40	0.60	
F	0.008	0.012	0.20	0.30	
Н	0.015Typ.		0.40	Тур.	
R	0.001	0.005	0.05	0. 15	

Suggested Pad Layout



Note:

- 1.Controlling dimension:in millimeters.
- 2.General tolerance:±0.05mm.
- 3. The pad layout is for reference purposes only.

REEL SPECIFICATION

P/N	PKG	QTY
TPD1E10B06DPYR-MS	X1SON-2	10000



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