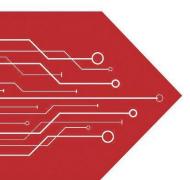
MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

Product data sheet

www.msksemi.com

Feature

100W peak pulse power per line ($t_P = 8/20\mu s$)

Replacement for MLV(0402)

Bidirectional configurations

Response time is typically < 1ns

Low clamping voltage

RoHS compliant

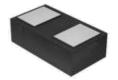
Transient protection for data lines to IEC61000-

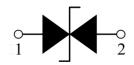
4-2(ESD) ±15KV(air), ±12KV(contact);

IEC61000-4-4 (EFT) 40A (5/50ns)

Pin Description

Schematic Diagram





DFN1006

Applications

Cellular phones

Portable devices

Digital cameras

Power supplies

Electrical characteristics per line@25℃ (unless otherwisespecified)

	-	•	-			
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Peak Reverse Working Voltage	V _{RWM}				5	V
Breakdown Voltage	V_{BR}	I _t = 1mA	5.6			V
Reverse Leakage Current	I _R	V _{RWM} = 5V T=25°C			1.0	μΑ
Maximum Reverse Peak Pulse Current	I _{PP}			5.5		Α
Clamping Voltage	Vc	I _{PP} =1A			10	V
Clamping Voltage	Vc	I _{PP} =3A			15	V
Clamping Voltage	Vc	I _{PP} =5A			21	V
Junction Capacitance	Cj	V _R =0V f = 1MHz		1		pF

Absolute maximum rating@25℃

Rating	Symbol	Value	Units	
Peak Pulse Power (t _p =8/20μs)	P _{pp}	100	W	
Peak Pulse Current (t _p =8/20μs)	I _{pp}	5	А	
Operating Temperature	TJ	-55 to 150	℃	
Storage Temperature	T _{STG}	-55 to 150	℃	





Electrical Parameter

Symbol	Parameter
I _{PP}	Maximum Reverse Peak Pulse Current
Vc	Clamping Voltage @ IPP
V_{RWM}	Working Peak Reverse Voltage
I _R	Maximum Reverse Leakage Current @ V _{RWM}
I _T	Test Current
V_{BR}	Breakdown Voltage @ I _⊺

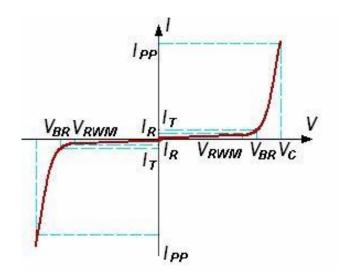


FIG1: Pulse Waveform

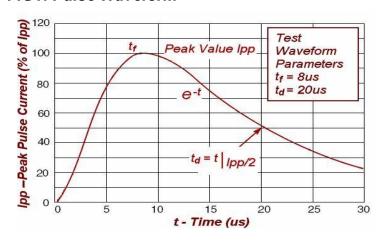
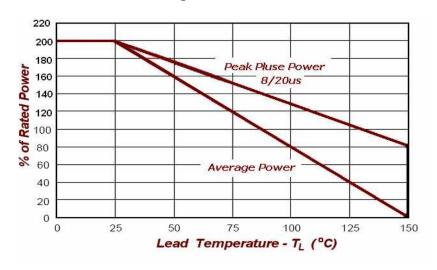
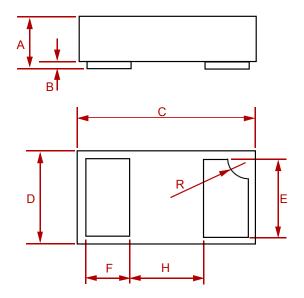


FIG2:Power Derating



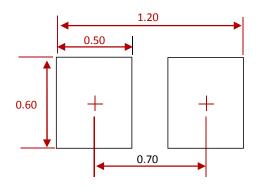
Semiconductor





Dim	Inches		Millimeters		
Dim	MIN	MAX	MIN	MAX	
А	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.		0.40Тур.		
R	0.001	0.005	0.05	0.15	

Suggested Pad Layout



NOTES:

- 1. CONTROLLING DIMENSIONS ARE IN MILLIMETERS (ANGLES IN DEGREES).
- 2. THIS LAND PATTERN IS FOR REFERENCE PURPOSES ONLY. CONSULT YOUR MANUFACTURING GROUP TO ENSURE YOUR COMPANY'S MANUFACTURING GUIDELINES ARE MET.

REEL SPECIFICATION

P/N	PKG	QTY
TPD1E1B04DPYR-MS	DFN1006	10000



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