

MSKSEMI 美森科

SEMICONDUCTOR



ESD



TVS



TSS



MOV



GDT



PLED

SEUC10F5V4U-MS

Product specification

FEATURES

- 60Watts peak pulse power ($t_p = 8/20\mu s$)
- Bidirectional configurations
- Solid-state silicon-avalanche technology
- Low clamping voltage
- Low leakage current
- Low capacitance ($C_j=0.2pF$ typ. I/O to I/O)
- IEC 61000-4-2 $\pm 20kV$ contact $\pm 25kV$ air
- IEC 61000-4-4 (EFT) 40A (5/50ns)
- IEC 61000-4-5 (Lightning) 4A (8/20 μs)

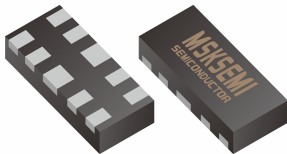
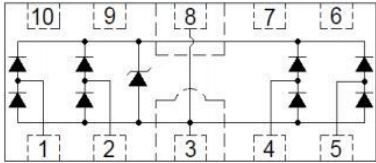
MACHANICAL DATA

- Molding compound flammability rating: UL 94V-0
- Packaging: Tape and Reel
- RoHS/WEEE Compliant

APPLICATIONS

- USB3.0, USB2.0, Ethernet
- HDMI 2.0, Displayport 1.3, eSATA
- Unified Display interface
- Digital Visual Interface

Reference News

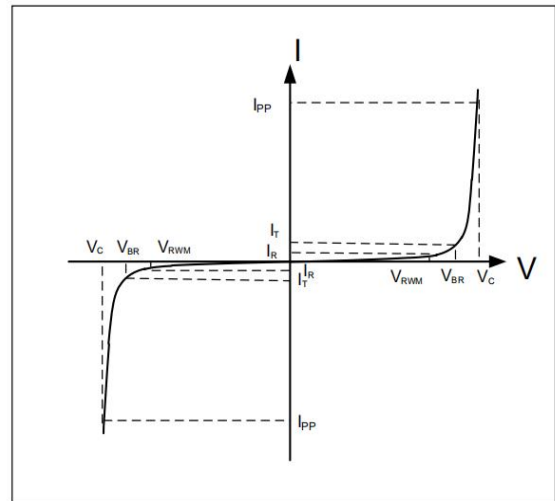
PACKAGE OUTLINE	PIN CONFIGURATION	Marking
		<div style="background-color: black; color: white; padding: 10px; text-align: center; font-weight: bold; font-size: 24px;">0524P</div>
<p>DFN2510-10L</p>		

ELECTRICAL CHARACTERISTICS CURVE

Parameter	Symbol	Conditions	Min	Typical	Max	Units
Reverse Stand-Off Voltage	V_{RWM}				5.0	V
Reverse Breakdown Voltage	V_{BR}	$I_T=1mA$	6.0			V
Reverse Leakage Current	I_R	$V_{RWM}=5V, T=25C$			1	μA
Peak Pulse Current	I_{PP}	$t_p = 8/20\mu s$			4	A
Clamping Voltage	V_C	$I_{PP}=4A, t_p=8/20\mu s$			15	V
Junction Capacitance	C_j	$V_R = 0V, f = 1MHz$ I/O to I/O		0.2	0.3	pF
		$V_R = 0V, f = 1MHz$ I/O to GND		0.4	0.55	

Electrical Parameters (TA = 25°C unless otherwise noted)

	Parameter
PP	Maximum Reverse Peak Pulse Current
V_C	Clamping Voltage @ I_{PP}
V_{RWM}	Working Peak Reverse Voltage
I_R	Maximum Reverse Leakage Current @ V_{RWM}
BR	Breakdown Voltage @ I_T
T	Test Current



Typical Characteristic Curves

Fig.1 Peak Pulse Power Rating Curve

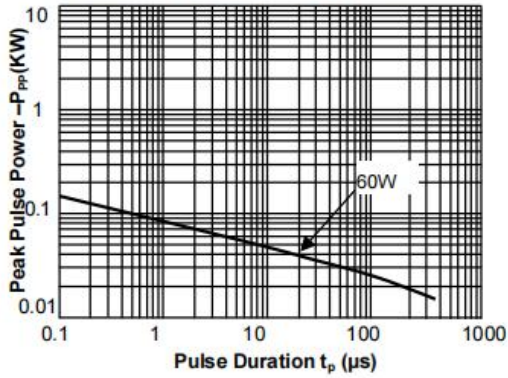


Fig. 2 Pulse Derating Curve

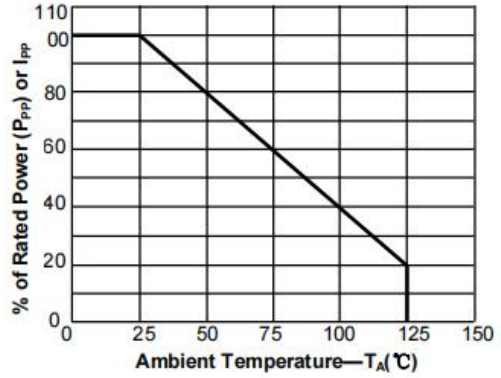


Fig.3 Pulse Waveform-8/20 μs

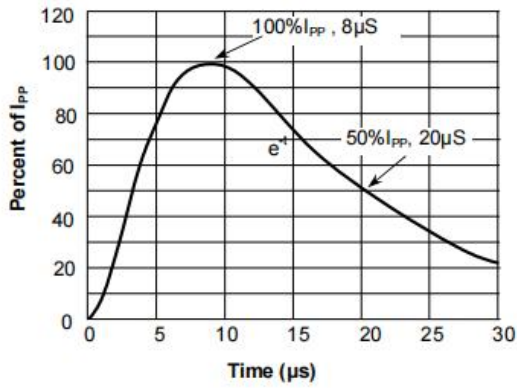
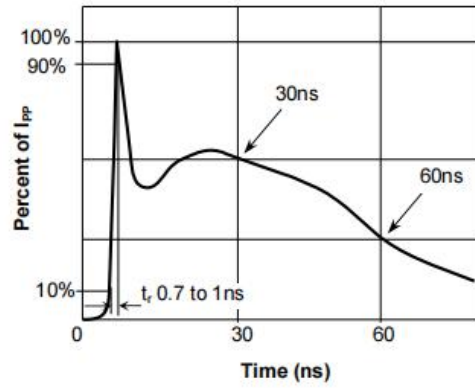
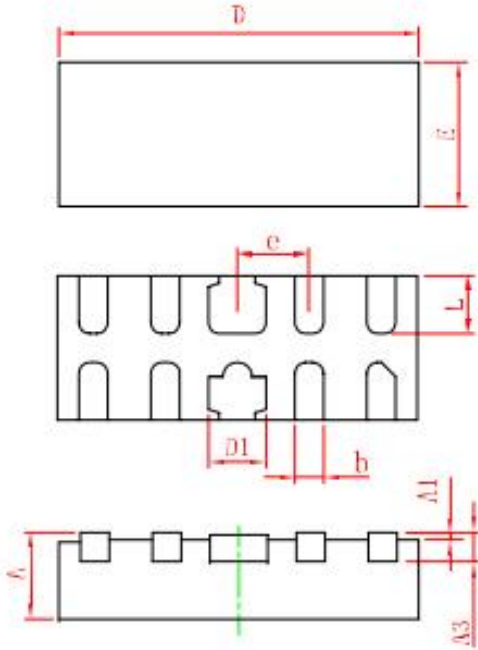


Fig.4 Pulse Waveform-ESD(IEC61000-4-2)



PACKAGE MECHANICAL DATA



Symbol	Dimensions in millimeters		
	Min	Nom	Max
A	0.45	0.50	0.55
A1	-	0.02	0.05
A3	0.10	0.15	0.20
D	2.45	2.50	2.55
E	0.95	1.00	1.05
D1	0.35	0.40	0.45
b	0.15	0.20	0.25
e	0.50BSC		
L	0.35	0.40	0.45

REEL SPECIFICATION

P/N	PKG	QTY
SEUC10F5V4U-MS	DFN2510-10L	3000

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