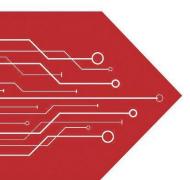
MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

Product data sheet

www.msksemi.com

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Compiance

Feature

80W peak pulse power per line ($t_P = 8/20\mu s$)

SOD-523 package

Replacement for MLV(0603)

Bidirectional configurations

Protects one power or I/O port

Low clamping voltage

RoHS compliant

Transient protection for data lines to IEC 61000-4-2(ESD) ±30kV(air), ±30kV(contact); IEC 61000-4-4 (EFT) 40A (5/50ns)

Pin1 Pin2 SOD-523

Applications

Cellular phones

Portable devices

Digital cameras

Power supplies

Mechanical Characteristics

Lead finish:100% matte Sn(Tin)

Mounting position: Any

Qualified max reflow temperature:260°C Device meets MSL 1 requirements

Pure tin plating: 7 ~ 17 um

Pin flatness: ≤3mil

Electrical characteristics per line@25?(unless otherwisespecified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Peak Reverse Working Voltage	V _{RWM}			3.3		V
Breakdown Voltage	V_{BR}	I _T = 1mA	4.8		6.8	V
Reverse Leakage Current	I _R	V _{RWM} = 5V T=25°C			1.0	μA
Clamping Voltage ¹⁾	V _C	TLP = 16A, t _p = 100ns		9.0		V
Dynamic resistance ¹⁾	R _{DYN}			0.15		Ω
Clamping Voltage ²⁾	Vc	I _{PP} =10A		8	10	V
Junction Capacitance	C	V _R =0V f = 1MHz		33		pF

Notes:

1.TLP parameter: Z_0 =50 Ω , t_p =100ns, t_r =2ns, averaging window from 60ns to 80ns. R_{DYN} is calculated from 4A to 16A.

2. Non-repetitive current pulse, according to IEC61000-4-5.

Absolute maximum rating@25?

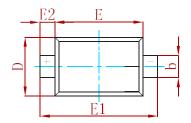
Rating	Symbol	Value	Unit
Rating	Зуппоп	Value	Onit
Peak Pulse Power (t _p =8/20µs)	P _{pp}	80	W
Operating Temperature	TJ	-55 to +150	℃
Storage Temperature	T _{STG}	-55 to +150	℃

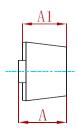


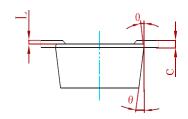




PACKAGE MECHANICAL DATA

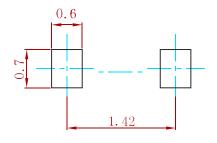






Cumbal	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α	0.510	0.770	0.020	0.031	
A1	0.500	0.700	0.020	0.028	
b	0.250	0.350	0.010	0.014	
С	0.080	0.150	0.003	0.006	
D	0.750	0.850	0.030	0.033	
Е	1.100	1.300	0.043	0.051	
E1	1.500	1.700	0.059	0.067	
E2	0.200 REF		0.008 REF		
L	0.010	0.070	0.001	0.003	
0	7° REF		7° F	REF	

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
AZ5123-01H-MS	SOD-523	3000

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