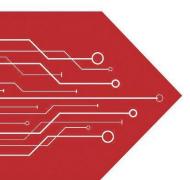
MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

Product data sheet

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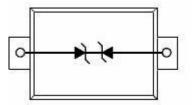


Applications

- Cellular phones
- Portable devices
- Digital cameras
- Power supplies

Features

- Small Body Outline Dimensions
- Low Body Height
- Peak Power up to 200 Watts @ 8 x 20 _s
 Pulse
- Low Leakage current
- Response Time is Typically < 1 ns
- ESD Rating of Class 3 (> 16 kV) per Human Body Model
- IEC61000-4-2 Level 4 ESD Protection
- IEC61000-4-4 Level 4 EFT Protection



SOD- 523

Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.VF = 0.9V at IF = 10mA

P/N	V _{RWM} (V)	I _R (uA) @ V _{RWM}	V _{BR} (V)@ I _T (Note 1)	Ιτ	V _C (V) @ I _{PP} =5 A*	V _C (V) @ Max I _{PP} *	I _{PP} (A)*	P _{PK} (W)*	C (pF)
	Max	Max	Min	mA	Тур	Max	Max	Max	Тур
AZ5125-01H-MS	5.0	1	5.6	1.0	11.6	18.6	9.4	174	25

^{*}Surge current waveform per Figure 1.

Absolute Ratings (Tamb=25°C)

Symbol	Parameter	Value	Units
P _{PP}	Peak Pulse Power (t _p = 8/20 μ s)	200	W
TL	Maximum lead temperature for soldering during 10s	260	°C
T _{stg}	Storage Temperature Range	-55 to +155	°C
T _{op}	Operating Temperature Range	-40 to +125	°C
Tj	Maximum junction temperature	150	°C
	IEC61000-4-2 (ESD) air discharge contact discharge	±15 ±8	KV
	IEC61000-4-4 (EFT)	40	Α
	ESD Voltage Per Human Body Model	16	KV

^{1.} V_{BR} is measured with a pluse test current I_T at an ambient temperature of 25 $^{\circ}$ C.

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⊤

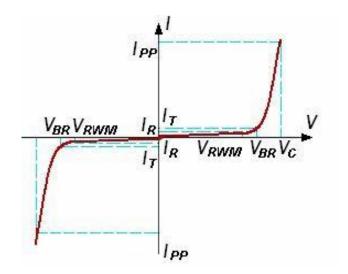


FIG1: Pulse Waveform

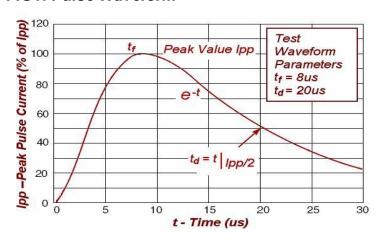
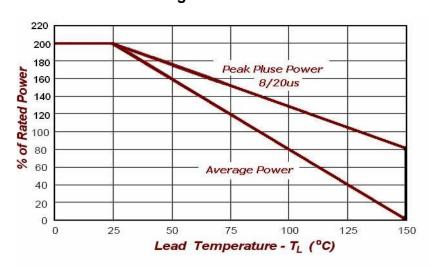


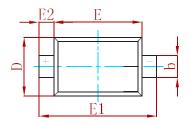
FIG2:Power Derating

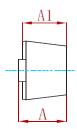


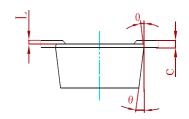






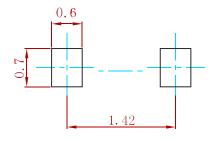






Cumbal	Dimensions	In Millimeters	Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α	0.510	0.770	0.020	0.031	
A1	0.500	0.700	0.020	0.028	
b	0.250	0.350	0.010	0.014	
С	0.080	0.150	0.003	0.006	
D	0.750	0.850	0.030	0.033	
E	1.100	1.300	0.043	0.051	
E1	1.500	1.700	0.059	0.067	
E2	0.200	REF	0.008 REF		
L	0.010	0.070	0.001	0.003	
0	7° F	REF	7° 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
AZ5125-01H-MS	SOD-523	3000



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