MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

Broduct data speet







Features

100Watts peak pulse power (tp = $8/20\mu s$)

Transient protection for high speed data lines to

IEC 61000-4-2 (ESD) ±30kV (air), ±30kV(contact)

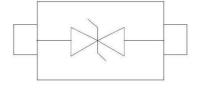
IEC 61000-4-4 (EFT) 40A (5/50ns)

Working voltages :5V

Protects one bidirectional line

Low operating and clamping voltages

Solid-state silicon avalanche technology





SOD323

Applications

Set Top Box

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

Maximum Rating @ Ta=25°C unless otherwise specified

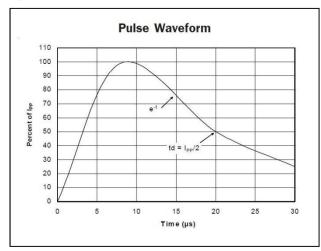
Symbol	Parameter	Ratings	Units
P _{PK}	Peak Pulse Power (tp = 8/20μs)	100	Watts
TL	Lead Soldering Temperature	260(10sec.)	${\mathbb C}$
TJ	Operating Temperature	-55 to +125	${\mathbb C}$
T _{STG}	Storage Temperature	-55 to +150	${\mathbb C}$

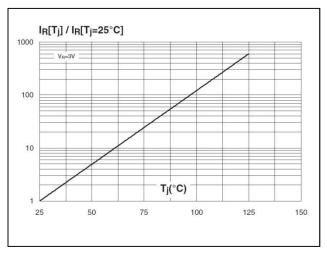
Electrical Characteristics@ Ta=25°C unless otherwise

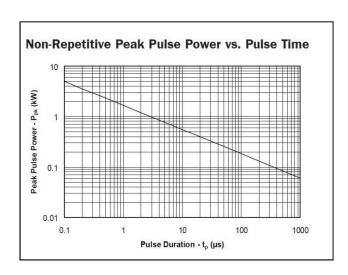
	VRWM @IR		VBR@ImA	Vc@1A	Vc@IPP		CJ
P/N	V	μΑ	V	V	V	Α	pF
		MAX	MIN	MAX	MAX		MAX
AZ2225-01L-MS	5	1	6.1	11.8	9	10	15

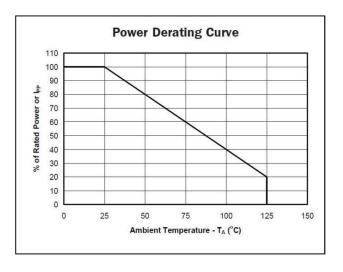


Typical Characteristics@ Ta=25°C unless otherwise specified



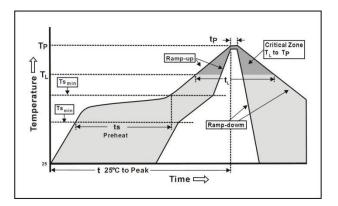




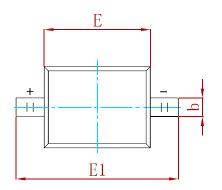


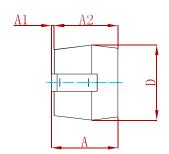
Soldering Parameters

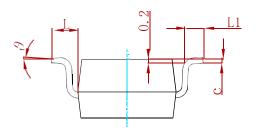
Reflow Condition		Fb – Free assembly	
	-Temperature Min (T _{s(Min)})	150°C	
Pre Heat	- Temperature Max (T _{s(Max)})	200°C	
	-Time (Min to max) (t _s)	60 – 180 secs	
Average ramp up rate (Liquidus) Temp (T _L) to peak		3°C/second Max	
T _{s (Max)} to T _L - Ramp-up Rate		3°C/second Max	
Defless	-Temperature (T _L) (Liquidus)	217°C	
Reflow	-Temperature (t _L)	60 – 150 seconds	
Peak Temperature (T _p)		250*0/-5 °C	
Time within 5°C of actual peak Temperature (t _p)		20 – 40 seconds	
Ramp-dowm Rate		6°C/second Max	
Time 25°C to peak Temperature (T _p)		8 minutes Max.	
Do not exceed		260°C	



PACKAGE MECHANICAL DATA

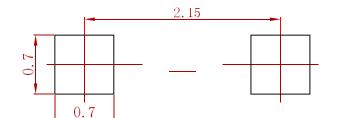






Council of	Dimensions	In Millimeters	Dimensions In Inches		
Symbol	Min.	Max.	Min.	Max.	
Α		1.000		0.039	
A 1	0.000	0.100	0.000	0.004	
A2	0.800	0.900	0.031	0.035	
b	0.250	0.350	0.010	0.014	
С	0.080	0.150	0.003	0.006	
D	1.200	1.400	0.047	0.055	
E	1.600	1.800	0.063	0.071	
E1	2.550	2.750	0.100	0.108	
L	0.475	REF.	0.019	REF.	
L1	0.250	0.400	0.010	0.016	
θ	0°	8°	0°	8°	

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
AZ2225-01L-MS	SOD-323	3000



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