



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SILICON ZENER DIE

Features:

- **Zener Voltage 2.4V - 47V**
- **Withstand Large Surge Stresses**

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Nominal Power Dissipation	P _D	Derate above 25 °C	500	mW
Forward Voltage	V _F	@ I _F =10mA, Pulse, T _J = 25 °C	0.9	V
Operating Temperature Range	T _J	-	-55 to +150	°C
Storage Temperature Range	T _{stg}	-	-55 to +150	°C

TECHNICAL DATA
DATA SHEET D0123 REV. -

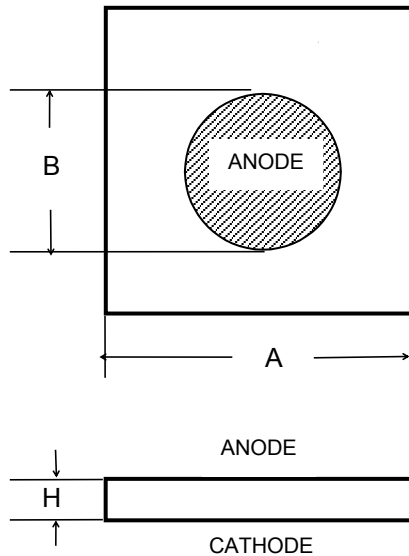
Electrical Characteristics @ T_J=25 °C:

Device	Zener voltage		Zener Impedence			Leakage Current	
	Nom. VZ ①	@ I _{ZT}	Max.	Max.	@ I _{ZK}	Max. I _R @ V _R	
			Z _{ZT} @ I _{ZT}	Z _{ZK} @ I _{ZK}			
	Volts	mA	Ω	Ω	mA	uA	Volts
SZ212V4	2.4	20	30	1200	0.25	100	1
SZ212V5	2.5	20	30	1200	0.25	100	1
SZ212V7	2.7	20	30	1300	0.25	75	1
SZ213V0	3	20	30	1600	0.25	50	1
SZ213V3	3.3	20	28	1600	0.25	25	1
SZ213V6	3.6	20	24	1700	0.25	15	1
SZ213V9	3.9	20	23	1900	0.25	10	1
SZ214V3	4.3	20	22	2000	0.25	5	1
SZ214V7	4.7	20	19	1900	0.25	5	2
SZ215V1	5.1	20	17	1600	0.25	5	2
SZ215V6	5.6	20	11	1600	0.25	5	3
SZ216V2	6.2	20	7	1000	0.25	5	4
SZ216V8	6.8	20	5	750	0.25	3	5
SZ217V5	7.5	20	6	500	0.25	3	6
SZ218V2	8.2	20	8	500	0.25	3	6.5
SZ219V1	9.1	20	10	600	0.25	3	7
SZ2110	10	20	17	600	0.25	3	8
SZ2111	11	20	22	600	0.25	2	8.4
SZ2112	12	20	30	600	0.25	1	9.1
SZ2113	13	9.5	13	600	0.25	0.5	9.9
SZ2114	14	9	15	600	0.25	0.1	10
SZ2115	15	8.5	16	600	0.25	0.1	11
SZ2116	16	7.8	17	600	0.25	0.1	12
SZ2118	18	7	21	600	0.25	0.1	14
SZ2120	20	6.2	25	600	0.25	0.1	15
SZ2122	22	5.6	29	600	0.25	0.1	17
SZ2124	24	5.2	33	600	0.25	0.1	18
SZ2127	27	4.6	41	600	0.25	0.1	21
SZ2128	28	4.5	44	600	0.25	0.1	21
SZ2130	30	4.2	49	600	0.25	0.1	23
SZ2133	33	3.8	58	700	0.25	0.1	25
SZ2136	36	3.4	70	700	0.25	0.1	27
SZ2139	39	3.2	80	800	0.25	0.1	30
SZ2140	40	3.0	100	800	0.25	0.1	31
SZ2147	47	2.7	150	1000	0.25	0.1	36

Note: ①V_Z Tolerance is ±5%

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Mechanical Dimensions: In mil (mm)



Bottom side metalization Ag-5kA minimum
Top side metalization AlSiCu -25kA minimum
Bottom side is cathode, top side is anode
Dimension H = 8.2 ± 1 (0.21 ± 0.025) (It can be customized according to customer requirements)

A	B
21 ± 2 (0.53 ± 0.05)	15 ± 2 (0.38 ± 0.05)

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